Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Hundreds of varieties of tulips, accurately labeled, are grown each year in Vaughan's tulip trials at our Garden Center, W. 47th Street and Willow Springs Road, Western Springs, Ill. You are invited to inspect them next spring. Extensive flower and vegetable seed trials are planted nearby each year, and field days to which all florists and dealers are invited are held in August. See illustration on the back cover.

Vaughan's BOOK FOR FLORISTS *Autumn* 1954

601 W. JACKSON BLVD., CHICAGO 6—47 BARCLAY ST., NEW YORK 7

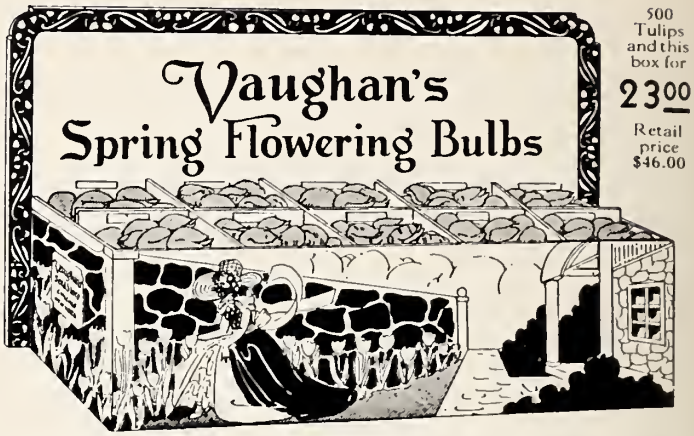
Double Your Money on Tulips Sold from this Attractive Display

MERCHANDISING bulbs belongs to the florist, who can supply expert advice to purchasers. Profits are large; there is no spoilage; and the business harmonizes with the florist's line, an important point. Our beautiful display box will be an ornament in any flower shop.

Vaughan's ten-compartment display box, staunchly made of 100 point cardboard printed in brilliant colors, will hold 500 bulbs, 50 each of ten varieties.

This beautiful display box, with 500 Top Size May-flowering tulips, 50 each of ten named varieties, separately bagged, $23.00

We use TOP SIZE BULBS, the size which sells best over the counter. The 10 named varieties (50 each) of good named varieties. The price to you is $23.00 for the box and 500 bulbs of 10 named varieties. You retail them for $1.15 a dozen, or more, because the selection is worth more, doubling your money. Each variety is packed 50 in a bag labeled with its name. You empty one bag into a compartment, and refill in the same manner when it is empty. This prevents mixtures and loss of bulbs. After the display box and first collection have been bought, refill orders will be accepted for $22.50 for 500 bulbs, 50 each of 10 varieties, in bags of 50; or $44.00 for 1,000 bulbs, 100 each of ten varieties. Colored pictures are provided to paste on the compartments. This box keeps the bulbs in the open air, thus preventing bacterial rot which comes when they are sealed in cartons. The named varieties are kept apart without mixing, which adds greatly to their value.



Tulip Display Box Holding 500 Bulbs, 50 each of 10 Named Varieties

Counter Space Needed, 13x29 Inches.

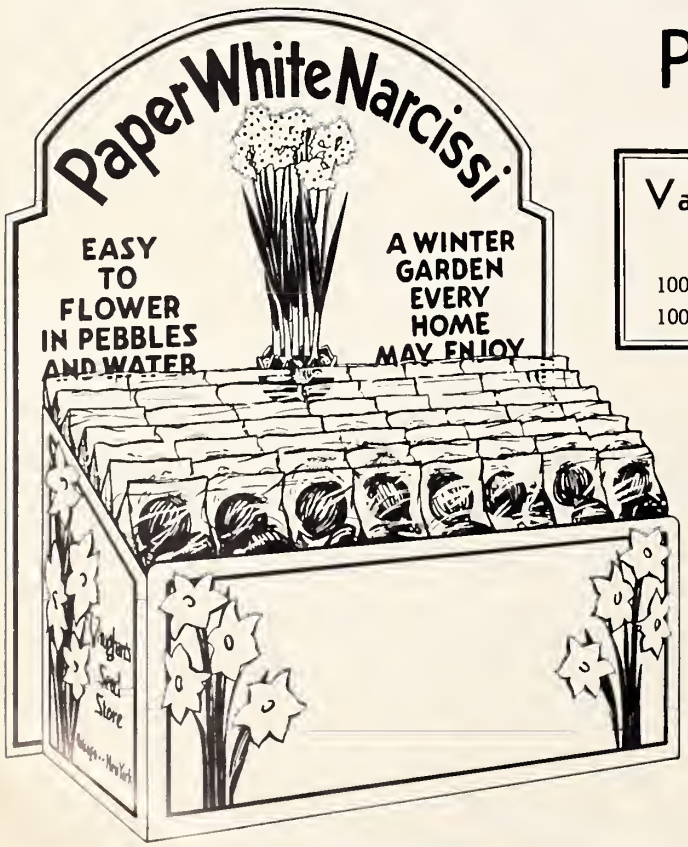
The display box with its garden design printed in brilliant colors, occupies very little space on your counter. It is an ornament to any store. It solves the problem of offering bulbs for sale in the retail shop, without danger of mixing varieties, and losing stock.

336 MISCELLANEOUS BULBS AND DISPLAY BOX FOR $25.00

ASSORTMENT INCLUDES

96 King Alfred Narcissi, retails at $1.50 per doz...$12.00
96 Hyacinths, 24 each Blue, White, Light Pink, Dark Pink, retails at $3.00 per doz.....$24.00
96 Crocus, Mixed, retails at 75c per doz.....$ 6.00
48 Parrot Tulips Fantasy, retails at $1.25 per doz..$ 5.00
Retail Price.....$47.00
Profit.....$22.00
Refills $24.00

We will actually ship to you 100 each King Alfred, Hyacinths and Crocus and 50 Fantasy Tulips to allow for shrinkage in selling



Paper White Display Box, 10x20 inches, Holding 100 Illustrated Bags

Paper White Display

WITH IMPORTED BULBS

Vaughan's Paper White Display Box as Illustrated, Together With

100 Bags, each holding 3 bulbs, 13-14 ctm.,(300 bulbs) $20.00
100 Bags, each holding 3 bulbs, 14-15 ctm.,(300 bulbs) 23.00

EVERY customer who enters your store is a prospect for a sale of Paper White narcissus bulbs. Here is a carefully designed, thoroughly tested method of displaying and selling them at a minimum of trouble and expense and the maximum of profit.

Florists cannot afford to sell inferior bulbs. Vaughan's bulbs of 13-14 ctm, circumference and up are of flowering size and highest quality. Three bulbs are enclosed in an illustrated bag which prevents picking over of the individual bulbs, injurious handling and resultant waste. Every bulb we ship you can be sold at a profit.

Our Paper White display box, specially reinforced, decorated in black, red and green, will harmonize with your store display and sell its contents. It occupies 10 by 20 inches space, and one filling provides $40 to $48 sales at 100% profit.

Quick Profits In Modern Packaged Bulbs

These full-color window packages sell themselves. Shop tests show that gardeners will pick them off the counter even when they had no idea of buying when they came in. Display them and double your bulb sales as well as your profits.

Best of all, you have no losses from skinned, damaged bulbs, no waste from picked-over open basket displays. Varieties can be kept separate, no complaints of accidental mixtures. Your customer gets a better bulb, protected from drying-out and mechanical injury.

You don't have to buy a set assortment (usually based on what importers have in surplus). Instead, you can order exactly the varieties your trade will buy. **Make your own assortment—one variety or as many as 24 different varieties in each carton.**

At our suggested retail price of **$1.00,** you can meet chain store competition, yet give your customers a far superior bulb.

Make Your Own Selection Packaged 24 Boxes per Carton

	Size	Bulbs per Box	Price per Box
DARWIN TULIPS:			
City of Hoarlem	11-12	10	$0.45
Eclipse	11-12	10	.45
Forncombe Sanders	11-12	12	.45
Margeaux	11-12	10	.45
Northern Queen	11-12	10	.45
Princess Elizobeth	11-12	12	.45
Brunus	11-12	12	.45
Phillip Snowden	11-12	12	.45
Queen of the Night	11-12	12	.45
Scotch Lossie	11-12	10	.45
The Bishop	11-12	10	.45
Zwanenburg	11-12	12	.45
Mixed	11-12	12	.45
COTTAGE TULIPS:			
Golden Horvest	11-12	12	.45
Princess Margoret Rose	11-12	12	.45
BREEDER TULIPS:			
Dillenburg	11-12	12	.45
George Groppe	11-12	10	.45
SPECIE TULIPS:			
Fosterlono Red Emperor	11	12	.95

	Size	Bulbs per Box	Price per Box
PARROT TULIPS:			
Blue Porrot	11-12	10	$0.45
Fontasy	11-12	10	.45
Sunshine	11-12	10	.45
HYACINTHS:			
City of Hoarlem	15-16	6	.45
Grand Moitre	15-16	6	.45
La Victoire	15-16	6	.45
L'Innocence	15-16	6	.45
Pink Pearl	15-16	6	.45
Mixed	15-16	6	.45
CROCUS—Mixed		25	.50
MUSCARI—Armeniacum			
Improved Heovenly Blue		25	.45
SCILLAS—Siberica Spring Beouty		25	.45
NARCISSUS:			
Dick Wellband (Lorge Cupped)	DN 2	6	.35
King Alfred	DN 2	6	.35
Scarlet Elegance (Incomporobilis)	DN 2	6	.35
Texos (Double)	DN 2	6	.50
Mixed	DN 2	12	.50
IRIS	7-8	25	.45

Cash In On Hardy Lily Demand

Fastest growing hobby flower in America today is the hardy Lily. Hundreds of magazine articles during the past year have created hundreds of thousands of prospects.

You can cash in on this tremendous potential demand with our modern hardy Lily merchandising unit. All you do is open the lid and you are in the Lily business. The case itself is the display, complete with gorgeous full color illustrations. There are no losses: bulbs remain until sold in storage peat.

Usual chain store methods can't supply a fresh, unwilted healthy bulb. Your customers will be delighted to sell themselves out of this compact, self-service unit.

LILY DISPLAY CASE CONTAINS
All Bulbs 8 to 9 inches in circumference

75 Regole
50 Oronge Triumph
25 Umbellotum
50 Tigrinum
50 Rubrum
250 Totol

Retail at 35c each
Selling Total $87.50
Cost 40.00
Profit $47.50

Case of 250 Bulbs $40

F. O. B. CHICAGO

Shipment Oct. 1st.

Latest News from Experiment Stations

BEST control for euonymus scale, according to Conn. Agr. Exp. Station, is malathione. One quart of 50% malathione emulsion in 100 gallons of water gave 100% kill of both young and adults.

If you use foliar feeding in connection with spraying, try adding ¼ of 1% sugar to the solution. The sugar acts as a buffer against injury by the fertilizer salts used for feeding.

Soil scientists now believe that it is all right to apply chemical fertilizers in fall instead of waiting until spring, provided you have loam or clay soil. In the past, they recommended applications only in spring. Since most modern plant foods contain nitrogen in the form of ammonia, this was thought too soluble to remain in the soil.

Recent tests prove, however, that the ammonia is absorbed on the clay particles in heavier soils and are not lost. On sandy soils, better wait until spring.

Not yet on the market, but scheduled for introduction soon are permanently-soluble forms of both potash and phosphorus which will not "lock up" in insoluble forms which are unavailable to plants. These are similar to the "chelated" iron compounds. They are made in kilns lined with zirconium, which can be heated to very high temperatures.

Such compounds promise to improve the growth of plants which need liberal amounts of potash and phosphorus towards the end of the growing cycle. In our own tests, all bulbous plants have shown marked improvement when fed with one of these experimental compounds, tentatively named E-Phos.

Scientists at the University of California, Los Angeles find that Zoysia meyeri, the new lawn grass for warm parts of the United States, can be easily killed out with maleic hydrazide. At first, many turfgrass specialists were afraid that Zoysia meyeri, because of its vigorous, aggressive growth might prove a pest if allowed to run wild.

Now, when they want to get rid of this grass in a mixed turf, a spraying with maleic hydrazide removes it. Other grasses are slowed up in growth, but not permanently injured.

Maleic hydrazide has been used experimentally to "pinch" mums. Spraying with this chemical checks the apical bud which is normally pinched out, allowing the side shoots to grow. Experimentally-minded mum growers can get more information by writing Naugatuck Chemicals Division, U. S. Rubber Company, Naugatuck, Conn. This might be a real labor saving method of pinching.

Maleic hydrazide makes a third item of news. Experimentally, roses dipped in a solution of this chemical were held for 42 days in 40 degree cold storage. Chrysanthemum Gold Coast kept for 48 days with similar treatment.

Results after dipping are as good as those with 31 degree storage without dipping. Method is still experimental, but U. S. Rubber will be glad to send details.

If the seed crop is satisfactory, we hope to introduce new long-lasting Petunias in 1955. These are made possible by breeding together two lines that produce a cytoplasmic-sterile seedling. Since it produces neither pollen nor seeds, such a seedling does not wilt quickly, but continues to flower for weeks. We have seen individual flowers that remained fresh and unfaded for three weeks.

If you sell Christmas greens, better cut out this paragraph and pin it on the December page of your calendar. You can fireproof greens without injury in any way by soaking them for five minutes in a saturated solution of ammonium phosphate. Don't confuse ammonium phosphate with sulfate; it's the phosphate part of the compound that does the fireproofing and sulfate won't work.

Use a pound of fertilizer grade ammonium phosphate to 2½ gallons of water. Soak the greens in this for five minutes. Foliage treated with this mixture will char but won't support an open fire.

Best control for rose blackspot in tests all over the country has been Captan. Where blackspot is the only pest attacking roses, it is by far the best material to use.

Captan has also proved to be the best cure for gray rot of strawberries. For good control, spray plants when flowers are nearly open, and again 10 days later. Where the disease is severe, a third spraying 10 days after the second may be needed. Treatment, by the way, checks rotting in shipment, too.

Creeping Jenny, a real pest in some sections, can be killed out. A commercial mixture of 2,4-D and potassium cyanate (Crab Nott with 2,4-D) does the trick. We know of no other successful chemical control.

If you live in an area where the narcissus bulb fly is a pest, control it with aldrin, chlordane or heptachlor. The most effective material is heptachlor—1 teaspoonful to 1⅓ gal. of water. Soak bulbs in this solution for 10 minutes. Discard solution after use. Higher concentrations of chlordane or aldrin are necessary.

There are hopes that nematodes in soil can be controlled chemically. Experiments at several stations show that Heptachlor applied to the soil will kill out all species that attack plants in greenhouses. At present, amounts to use have not been standardized, but costs should be far lower than fumigation with various chemicals now in use.

Growers who have used direct ammonification to apply nitrogen will have a new plant food for use in the same way. Experimentally, phosphoric acid had been injected directly into the soil. When it is run into the same furrow as the liquid ammonia, it tends to make the latter less volatile, thus conserving plant food, as well as furnishing phosphorus.

Forcing Fall Bulbs

Success in forcing tulips, narcissi, hyacinths, and iris in greenhouses and cold frames is largely dependent upon temperature control. All the factors which influence healthy growth are discussed below. It combines the basic principles originally established by scientific investigation in Holland, with the results of long experience in producing and forcing tulips under conditions prevailing in the United States. Every florist who attempts to grow these bulbs in a greenhouse or cold frame should be familiar with the facts.

PRINCIPLES OF GROWTH ON TULIPS AND NARCISSUS

In forcing bulbs exact temperature control must be maintained for optimum results. Following are some of the growing principles that must be followed to get consistently good results from year to year.

When you receive bulbs from us, initiation of their flower buds is complete, and the floral parts may be examined by cutting a few bulbs horizontally with a knife and examining with a microscope. All the parts of the flower should be visible including petals, stamens and pistil. To find the flower bud, start cutting the bulb in the center and gradually work down by small segments in layers. The leaves will surround the flower, and will be cut first, and should not be confused with the flower part. Most varieties respond best to 68° F until the bud has been initiated in the bulb. After bud initiation 48° F is the proper storage temperature.

Precooling is the procedure of controlling the temperature so that the leaves, stem and flower bud elongate most rapidly in proper balonce with one another. Most varieties respond best at 48° F for the elongation period. Vaughan's precooled bulbs have been given the optimum elongation temperature, as soon as possible after bud initiation has been complete, so that the best and earliest blooms possible can be obtained.

PROCEDURE FOR GROWER TO FOLLOW

Upon receiving either precooled or regular Tulip bulbs, plant them at once and grow them as close to 48° F temperature as possible until the shoots are about 2 to 3 inches high. When the plants are **at least** 2 to 3 inches high they may be moved to the greenhouse bench at listed dates for each variety. When the shoots start to emerge, it is wise to spray all flats or pots with a solution of fermate made in the proportion of 1 pound of fermate to 100 gallons of water with 4 ounces of Grasseli S. S. 3 combined spreader and sticker. This spray will control and prevent the spread of fungous diseases including Botrytis, or tulip "Fire". A dust of 50% sulfur and 50% limestone can also be used with good results particularly as a preventive. This dust should be applied freely after each watering until the flats or pots are removed to the growing bench.

Spotting of Tulip or Botrytis often occurs in late spring when the atmosphere in the greenhouses is very damp. Ventilate fully in order to avoid high temperatures and excessive moisture. Water very carefully and **never over the tops of the plants.**

Tulip bulbs can never be **"forced"** without taking unnecessary chances of white tip, bud blast or soft, poor quality bloom. If the temperature control has been followed as above, the best and earliest bloom will result without growing at above 60° F. Only certain varieties respond favorable to precooling and early forcing, and poor results will be obtained if late varieties are put in the growing bench too soon. Bulb seasons vary as to their early forcing qualities, and it is necessary to play a little on the late side by a week or so rather than risk the entire crop. 60° F means Day and Night temperatures, and we recommend growing the first two weeks in the bench at 55° F. We have seen bulbs grown at 60° F come perfectly one week after those grown at 67° F had white tip and blasted buds. We recommend the following varieties for early bloom in order of benching and earliness. Single Early and Mendel tulips come into bloom early but their substance generally does not come up to Cottage or Darwins. Approximate dates follow.

PRECOOLED TULIPS

	Benching	Blooming
Albino	December 5	January 5
Golden Harvest	December 15	January 15
Red Pitt	December 20	January 20
Rose Copeland	December 10	January 10
Wm. Copeland	December 10	January 10
Wm. Pitt	December 20	January 20
Utopia	December 27	January 27
Bartigon	December 26	February 5

REGULAR TULIPS

Dutch Stock	Benching	Blooming
Albino	December 14	January 21
Golden Harvest	December 21	February 1
Red Pitt	January 1	February 10
Rose Copeland	December 21	February 1
Wm. Copeland	December 21	February 1
Wm. Pitt	December 31	February 10
Utopia	January 7	February 17
Bartigon	January 15	February 20

Varieties may be held for later blooming by continuing the growing at 48° F until the plants are almost ready to bloom in storage or by growing cooler than 60° F on the bench. Tulips should be planted in well drained soil, and not over watered or under watered. They will need more frequent waterings on the bench than in storage. Any well balanced fertilizer improves the color of foliage and flowers, but do not use an overdose.

If it is impossible to plant bulbs at once on their arrival, at least unpack and store them as close to 48° F as possible. Nothing will spoil them faster than temperatures above 70° F.

If you are going to grow them in a cold frame, pick a site with good drainage and water with cold water thoroughly before placing the flats or pots. A shady spot is preferable so that the sun does not keep the soil temperature high during possible warm Fall days. Cover the flats or pots with 3 or 4 inches of sand so that sprouts will not be broken easily when the time comes for moving into the greenhouse. Where winters are severe, put on a heavy layer of leaves or straw just before hard freezes are apt to come in your temperature zone. Spray the tops of pots or flats with Fermate mixture or dust with sulfur mixture on bringing into the greenhouse. Grow day and night at 60° F or below; or 55° F at night and 63° F during the day. Generally speaking tulips grown in storage that is too cold will grow too short with large flowers; if grown in storage that is too warm the flowers will be small on thin, weak stems. Extreme heat in the greenhouses, any temperature from 67° F and up, may cause buds to blast or flower tips to turn white, and have poor color. If the plants become dry at any stage of growth bud blast will result.

We strongly recommend treating all tulip bulbs before planting by dusting with Spergon at the approximate rate of 1 lb. for each 3000 bulbs. Spergon is obtainable in units of 1 oz., 1 lb., 10 lbs. and 100 lbs. This treatment results in giving more even growth of plants by better rooting conditions.

Do not use Cuprinoled flats. It definetely repulses tulip roots.

IRIS

Early Wedgwood bulbs handled by us had the proper curing at increased temperature levels right after harvest. This treatment makes the bulbs bloom 2 to 3 weeks earlier than normal. While precooling in addition makes them bloom 6 weeks earlier than normal. Plant precooled bulbs at once under cool soil conditions.

Normal dry storaged bulbs held at 65 to 75° until Nov. 20 were precooled at 48° 6 weeks until Jan. 2nd. They bloom in 1½ months from planting date using 10 ctm bulbs. About two weeks longer for 8-9 ctm bulbs. Precooling late in season just before planting starting in Nov. or Dec. four weeks at 48° gives best stems. This precooling is a method of saving time and greenhouse space.

Iris bulbs do not have the flower buds initiated until the plant is approximately 2½ inches high in growth and large sizes only may be used for early flowering. Upon receipt of Iris Wedgewood 10 ctm. and up you should plant them and grow at 55° F, not higher, in the bench or in storage; 48° F would be acceptable but delays growth about one week. After the plants are 2½ inches high they should be definitely moved to the greenhouse and the day or night temperature should never be allowed to go above 60° F. Iris need lots of water and can not withstand dry soil conditions. Plant the bulbs shallow in deep flats. Late varieties or small sized Iris bulbs should be grown more slowly at about 45° to 50° F until about two weeks before blooming time when the temperature may be raised to 60° F days and 55° F nights. Plant Iris in deep flats so the roots have plenty of room, and the plants require good light conditions. Foliage may be trimmed as necessary to allow more light and decrease evaporation and drying out of flats, benches or pots. Plant 3x3 allowing a minimum of 9 sq. inches. The latest storage experiments apparently show that 8-10 weeks at 48 degrees is the best precooling period for late varieties White Excelsior, Golden Harvest Van Vliet, Imperator. These varieties do not respond in the Wedgwood precooling period of 4 to 6 weeks at 48.

NARCISSUS KING ALFRED

Trials at U.S.D.A. Belteville proved one weeks delay in planting precooled K. A. where bulbs were in cases at room temperature delayed bloom 3 weeks and made very uneven growth.

Plant all Narcissus bulbs as soon as received. Bulbs should be grown at 48° F until the shoots are 2 to 3 inches long at least. It does not hurt them to be left in much longer. Precooled King Alfred may be put on the bench as soon as they are 3 inches long. Grow at 60° F for three weeks and finish at 65° F. Narcissi like well drained soil, but water when heavy foliage growth is in crop. November 28 should be about the proper date to set precooled stock on the bench from the bulb cellar or cold frame. Regular stock of King Alfred should follow 2 to 3 weeks later, continuing with other varieties as their foliage indicates on forcing types.

We recommend treating all hardy Narcissus such as King Alfred and especially the Bicolors, by dusting Tersan or Arasan on the bulbs at approximate rate of 1 lb. per 2500 bulbs for the prevention of basal rot in Narcissus, and for more even plant growth. Tersan or Arasan is obtainable in units of 8 oz., 4 lbs., 25 lbs. and 100 lbs.

HYACINTHS

Unpack Hyacinths in trays at once and store dry in well-ventilated place—55° F is best.

For February flowering store at 60°-65° F and bulbs should not be planted until middle of October.

For later plantings up to January bulbs should be stored in trays in a dry warm place at a temperature of 70° but not higher.

Hyacinths if not planted immediately should be stored at 70° F in a dry place. Delayed planting is permissible for getting quality blooms late. Grow at 50° F in storage until the flower bud is entirely out of bulb at which time transfer to greenhouse for growing on gradually, increasing the temperature up to 70° F over a period of two weeks.

BULB CULTURE SUMMARIZED

The principal points for success with bulb stock of Tulips, Iris and Narcissus are:

1. Order and plant Tulips and Narcissus on time from September 1 to October 15. Best results out doors are obtained from these planting dates also.
2. Use moist soil in planting bulbs, and plant shallow so there is plenty of food and room for the roots. Water well after planting.
3. After unpacking as soon as received, store bulbs as close to 48° F as possible. Bulbs give off heat; in closed containers this can be serious.
4. Plant as soon as possible, and grow at 48° F until plants are 2 to 3 inches high. All bulbs should be well rooted before being brought into greenhouse. 48° F is a good rooting temperature. If bulbs have heaved up in the flats or pots by their rapid rooting, they should be pressed down again with careful handling.
5. In the greenhouse grow cool, never above 60° F early, or 65° F for last two weeks of growth. This is maximum for day temperatures. Southern growers should have cooler sheds to prevent warm fall days from injuring stock. Ventilate on warm days.
6. Do not allow flats or pots to dry out.
7. Do not plant Iris too close on benches, 3 inches apart in 4 inch rows is about right, or 3½" x 3½" in flats.
8. Use preventive spray or dust on Tulips against Botrytis. 5% dust or spray of Fermate, or 50% Limestone and sulphur.
9. Watch out for bright days raising house temperatures above maximum allowed. Nothing will spoil them faster than temperatures above 70° F.
10. Get to know varieties.
11. Buy from a reliable source where honest size of bulbs, and true varieties can be expected on delivery.
12. Overhead heat is best for bulb culture as pipes under the bench often heat the plants more than the house thermometer indicates. Where pipes under the bench are used it is wise to string a roll of wrapping paper about a foot high above the edge of each side of the bench. This prevents warm air from circulating up around the side of the bench and drying and heating flats along the edges.
13. We have found dusting bulbs with Spergon is a good preventive of rooting troubles in Tulip culture, particularly in late field plantings. Tersan or Arasan dusting for Narcissus.
14. Check your thermometers for accuracy. It is not unusual to find thermometers 5 degrees off and this could ruin a bulb crop run at 65° F close to maximum.
15. Iris wanted for late forcing do not have to be planted immediately upon arrival, but can be planted later in the season, even as late as December 15th. These Bulbs should be stored in trays in a fairly warm and dry place about 70°. You may precool 4 to 6 weeks before planting and save time in forcing.

Lily Forcing

CREOLES OR FLORIDII

Because the Creole types are grown in the south and have an earlier harvesting season, they are more rapidly grown for early cut flower trade than the western lilies. They have size and substance and can be grown on long heavy stems, and have been in good demand in that work. Naturally by storage treatment they may be held for later planting. They are better grown at a cooler temperature, starting them 50°, then later raising to 55°, which suits them well. They require a little more care during the early stages, as they do not make a strong root growth at the base. Give Creoles plenty of space and light. Lack of light has been found one of the causes of bud blasting and splitting in recent experiments with Creole Lilies.

Blooming time—90-100 days.

CROFT LILY CULTURE FOR FORCING

The Croft lily bulbs which we ship are precooled and should be planted immediately on arrival, with exception of some Croft Lilies we ship to the coastal areas of Washington, Oregon, and California where some growers pot them for frame growing immediately after the bulbs have been harvested. Where bulbs are not precooled they require about 180 days of growing to bloom them for Easter. Pot in a well drained soil mixture and grow at 60° temperature nights and days for blooming approximately in 125 days In the South only 110 days are required.

It is usually easier, and cheaper, to hold a plant back by running temperatures cool the last two weeks than run the risk and expense of having to use high temperatures and the spoilage envolved due to late timing.

Lilies keep well in cool temperatures as long as 2 to 3 weeks. By growing them at a steady 60 degrees they will progress rapidly without loss of buds.

After receiving bulbs from us figure the number of days you have from potting to the time you wish to sell. You will find more than enough time to make Easter.

Buds should be about an inch long 6 weeks before Easter. If your plants show longer buds than this 6 weeks before you wish to sell them, drop the temperature slowly, as a sudden change might check them, and make them very slow to respond to temperature later. If the buds are not quite visible raise the temperature to between 60 and 75 degrees day and night. At 75 degrees they will come into bloom from the bud stage being just visible in about 4 weeks. One can judge from week to week the progress of growth, and consequently how to regulate the temperatures during the last few weeks. Flower buds should be turned down or turning down at least 2 weeks before Easter. Gradual changes are the best and safest way to handle the crop. Water more frequently if temperatures are raised and never grow at above 75 degrees during the days. Higher temperatures than this only makes the plant respire faster, stretch more but bloom no sooner. Often higher temperatures cause loss of foliage and the blasting of buds.

Any nematode in bulbs results in late emergence. It would be a wise precaution to separate late emerging plants from the others until time shows them normal. Do not syringe Croft Lilies early. Syringing is only necessary to prevent dehydration under extremely hot forcing conditions.

HOW TO GROW SHORT AND EVEN LILIES

1. Bright houses are of great help. Every florist knows that shading will stretch plants. Therefore, have clean glass and give the plants enough room as they develop. Crowding will shade and stretch plants so avoid crowding.

2. Use room temperature water when watering. We have found winter city water as low as 34 degrees coming from the hose. It shocks the plant and slows growth. This necessitates running the greenhouse temperature higher to keep the Lilies growing steadily. The high temperatures cause soft elongated growth.

3. Water wisely! Too much will promote soft tall growth, too little and bud blast will result.

4. Fertilize very lightly but often. 1 or 2 lbs. of 8-8-8 of soluble type in 100 gallons of water used in regular watering schedule once a week after plants are 3 or 4 inches high is a good program using well drained loose soil. Krilium has been used with good results to lighten soil structure. 5 lbs. will treat 25 cu. feet.

5. Plant the bulbs exactly the same in all pots. 1 inch from the bottom of a 5 or 6 inch pot is a good depth. Easter Lilies are stem rooters and feeders particularly. Fill each pot to the same height with dirt. Thus later when the pot is watered and filled say with ¾" of water each plant will be receiving the same quantity of water.

6. How Lilies are treated in cold storage, and where they were originally grown influence the type of plant too, but Vaughan's treatment and sources of our stock can be grown by expert growers at any height from 8 inches to 3 feet. We have followed the same stocks to different greenhouses year after year and observed constant height variations depending on the grower.

WHERE LEAF SPOT HAS BEEN A PROBLEM

Keep the soil PH as close to 6 to 6.5 as possible. Usually leaf spot occurs with acid soil conditions tying up nitrogen. Add Limestone to pots and use 50-50 fertilizer mixture in (by weight ammonium sulfate and sodium nitrate), 2 lbs. in 100 gallons of water. Water every 10 days with this solution at night. Do not use this solution when pots are abnormally dry or burning might occur. Use no other fertilizer. Hydrated Lime may be used in place of ground limestone but it is more subject to burning and should be used more sparingly. Mixture of equal parts of ammonium sulfate and sodium nitrate may be added ½ teaspoon per pot every two weeks When mixing original potting soil the addition of 6 ounces of Dried blood to 3 bu. of soil helped avoid leaf spot at Penn. State.

ESTATE LILIES

Croft size flower of good substance. It grows taller and takes 10 days longer to bloom. It is a free bloomer and a fine Lily to grow for late spring and summer cut flowers or when tall pot plants are desired. The bulb is an exceptionally healthy one generally free of scale tip rot.

Vaughan's Tulips

The Cream of The Larger Growers Crops

ALL BULB PRICES SUBJECT TO CHANGE WITHOUT NOTICE

OUR TULIP TRIALS AT WESTERN SPRINGS, ILL.

Darwin Tulips

	Top Size 12 ctm and up		First Size 11-12 ctms	
	100	1000	100	1000
Afterglow. Soft apricot orange, tinged pink fine color for outdoor cut flowers.	$5.20	$42.00	$4.50	$36.00
All Bright. Carmine Red. Improved Bartigon Sport. Fine for pots. Bring in from Jan. 15th.	5.20	42.00	4.50	36.00
Aristocrat. Carmine rose edged white. For cut flowers. Bring in from Jan. 15th.	6.80	58.00	6.20	52.00
Bartigon. Fiery crimson. For pots or cutflowers. Bring in from Jan. 15th.	5.20	42.00	4.50	36.00
Chas. Needham. Scarlet red. Good for late cutflowers.	6.40	54.00	5.40	44.00
Campfire. Deep carmine red. Improved Bartigon. Another Bartigon Sport for pots. Bring in from Jan. 15th	5.20	42.00	4.50	36.00
Clara Butt. Soft salmon-pink. Use for outdoor cutflowers.	5.20	42.00	4.50	36.00
City of Haarlem. Cardinal red. For cutflowers. Bring in Jan. 10th.	6.40	54.00	5.40	44.00
Cordell Hull. Red flamed white. Excellent for pots. Bring in after Feb. 25th.	5.60	46.00	4.80	38.00
Demeter. Reddish purple. For pots or cutflowers. Bring in after Dec. 20th.	7.50	65.00	6.70	57.00
Desiree. Vermillion red. Very early forcing tulip.	8.00	70.00	7.00	60.00
Eclipse. Glistening blood Red.	6.40	54.00	5.40	44.00
Farncombe Sanders. Rich brilliant scarlet. Use for outdoor flowers.	5.20	42.00	4.50	36.00
Faust. Blackish-Violet. Bring in from Feb. 1.	5.20	42.00	4.50	36.00
Glacier. Pure White for outdoor cutflowers.	6.80	58.00	6.00	50.00
Golden Age. Deep Golden Yellow. Good for pots and cut flowers. Bring in from Jan. 25.	6.40	54.00	5.40	44.00
Insurpassable. Lilac. Good for pots and cutflowers can bring in from Jan. 5th.	6.40	54.00	5.40	44.00
La Tulipe Noire. Finest black. Garden Variety.	5.20	42.00	4.60	36.00
Montgomery white with carmine red edge sport of Bartigon.	7.50	65.00	6.50	55.00
Mamassa. New bright yellow.	6.40	54.00	5.40	44.00
Niphetos. Lemon yellow. Good for cutflowers. Bring in after Jan. 25th.	6.40	54.00	5.40	44.00

DARWIN TULIPS—Continued	Top Size 12 ctm. and up		First Size 11-12 ctms.	
	100	1000	100	1000
Paul Richter. Early Red very fine for Valentine's day without precooling	$8.50	$75.00	$7.50	$65.00
Philip Snowdon. Deep pink. A Bartigon Sport. Good for pots.	5.20	42.00	4.60	36.00
Pride of Haarlem. Carmine rose for outdoor cutflowers.	5.20	42.00	4.60	36.00
Pride of Zwanenburg. Salmon rose. Tall good for outdoor cutflowers.	6.40	54.00	5.40	44.00
Princess Elizabeth. Rose pink with silvery margin. Good for cutflowers. Bring in from Jan. 15th.	5.20	42.00	4.60	36.00
Prunus. Salmon pink. Best pink Bartigon Sport for pots.	5.20	42.00	4.60	36.00
Queen of the Night. Dark velvet-maroon for cutflowers. Bring in after Jan. 20th.	5.20	42.00	4.60	36.00
Red Pitt. Pure red. Sport of Wm. Pitt. For pans and cutflowers. Bring in from Jan. 1st.	5.20	42.00	4.60	36.00
Rose Copeland. Lilac-rose for pots and cutflowers. Bring in after Dec. 21st.	5.20	42.00	4.60	36.00
Scotch Lassie. Deep lavender. For outside planting.	5.20	42.00	4.60	36.00
The Bishop. Violet blue. For pans and cutflowers. Bring in after Jan. 25.	6.40	54.00	5.40	44.00
Utopia. Brilliant red. For pots and cutflowers. Bring in from Jan. 7th.	5.20	42.00	4.60	36.00
Venus. Large rose. Garden Variety.	6.40	54.00	5.40	44.00
Wm. Copeland. Lavender. Good for pans and cutflowers. Bring in from Dec. 21st.	5.20	42.00	4.60	36.00
William Pitt. Brilliant carmine. Still a good variety for pots and cutflowers. Bring in from Dec. 31st.	5.20	42.00	4.60	36.00
Yellow Giant. Golden yellow. Garden Variety.	5.20	42.00	4.60	36.00
Zwanenburg. Pure white, black anthers. Good for cutflowers. Bring in after Feb. 1st.	5.20	42.00	4.60	36.00
Finest Mixed. A well balanced mixture	5.20	42.00	4.60	36.00

Triumph Tulips

Being a cross between Single Early Tulip and the Darwins, they can be grown very easily.

Alberio. Cherry-red edged yellow. Fine for pots. Bring in from Jan. 10th.	$5.20	$42.00	$4.60	$36.00
Crater. Deep carmine-red. Good for pots or cutflowers. Bring in from Jan. 15th.	5.20	42.00	4.60	36.00
Denbola. Deep red edged white. Use for pots or cutflowers. Bring in after January 15th.	7.25	62.50	6.40	54.00
Elizabeth Evers. Deep pink. For either pots or cutflowers. Bring in from Jan. 20th.	6.40	54.00	5.40	44.00
Elmus. Carmine-red edged white. Very fine for pots for Valentine and Easter sales. Bring in after Jan. 15th.	6.40	54.00	5.40	44.00
Kansas. Snow white yellow anthers. For pots or cutflowers. Bring in after January 15th.	5.20	42.00	4.60	36.00
Korneforus. Carmine-red. For pans or cutflowers, good keeper. Bring in from January 10th.	6.40	54.00	5.40	44.00
Red Giant. Large scarlet. For cutflowers or pots. Bring in after Jan. 10th. Good for Easter sales.	9.50	85.00		
Telescopium. Violet-rose. For either pots or cutflowers. Bring in from January 10th.	5.20	42.00	4.60	36.00
Ursa Minor. Golden yellow. Good for pots. Bring in from January 15th.	6.40	54.00	5.40	44.00

Mayflowering Tulips

	Top Size 12 ctm. and up 100	1000	First Size 11-12 ctms. 100	1000
Albino. Pure white. The best white for pans and cutflowers. Start to bring in Dec. 14th. Be sure to remove side shoots early	$5.20	$42.00	$4.60	$36.00
Carrara. Pure White. Yellow anthers. For pots and cutflowers. Bring in after Jan. 15th	5.20	42.00	4.60	36.00
Chappaqua. Soft violet rose	6.50	56.00	5.50	45.00
Dido. Orange-red. Late. Can be grown for cutflowers out of doors	5.20	42.00	4.60	36.00
Golden Harvest. Soft lemon yellow. One of the best yellows for pots and cutflowers. Bring in after Dec. 21st	5.20	42.00	4.60	36.00
Golden Measure. Deep canary yellow.	6.40	54.00	5.60	46.00
Inglescombe Yellow. Canary Yellow. Good for cutflowers. Bring in about February 1st	5.20	42.00	4.60	36.00
Marjorie Bowen. Buff and salmon. Tall, good for outdoor cutflowers	5.20	42.00	4.60	36.00
Mongolia. Deep yellow, egg shaped flowers—gigantic size	7.50	65.00	6.20	52.00
Mount Erebus. Pure white. Large flowers. Tall stem. Very fine for outdoor cutflowers	6.40	54.00	5.60	46.00
Mother's Day. Lemon yellow supersedes Moonlight. Bring in after February 1st. Excellent for outdoor cutflowers	5.20	42.00	4.60	36.00
Mrs. J. T. Scheepers. Pure yellow. Can be used for either Indoor or Outdoor cutflowers. Bring in after February 15th	6.40	54.00	5.60	46.00
Ossi Oswalda. Creamy white, flushed pink. Can be used for early flowering after February 20th	5.20	42.00	4.60	36.00
Princess Margaret Rose. Yellow edged and flushed orange red	5.20	42.00	4.60	36.00
Themis. Pure white. Very good for pots. Bring in after Jan. 10th	5.20	42.00	4.60	36.00
Rosabella. Deep rose light edges. Can be used for outdoor cutflowers	6.40	54.00	5.60	46.00

Breeder Tulips

Used mostly for outdoor planting. They grow tall so can be used for cutflowers.

Bacchus. Dark violet blue	$6.40	$54.00	$5.60	$46.00
Cherbourg. Deep orange-yellow	6.40	54.00	5.60	46.00
Dillenburg. Salmon-orange	5.20	42.00	4.60	36.00
Don Pedro. Coffee brown	6.40	54.00	5.60	46.00
Indian Chief. Mahogany red	6.40	54.00	5.60	46.00
Geo. Grappe. Lavender Mauve	6.40	54.00	5.60	46.00
Louis XIV. Rich purple with golden bronze	6.40	54.00	5.60	46.00
Panorama. Brownish orange searlet	5.20	42.00	4.60	36.00
Prince of Orange. Orange-scarlet	5.20	42.00	4.60	36.00

Parrot Tulips

Blue Parrot. Petals bright purple blue. Sport of Darwin Blue Aimable, strong stem	$6.40	$54.00	$5.60	$46.00
Fantasy. Salmon pink with green markings	5.40	45.00	5.00	40.00
Orange Favorite. Deep orange shaded rose inside, deep orange, scarlet	5.40	45.00	5.00	40.00
Red Champion. Parrot of Darwin Bartigon, not quite so large as Fantasy, but born on strong stem, deep red colored	8.50	75.00	7.50	65.00
Sunshine. Pure butter yellow. Parrot of Cottage Bouton d'Or	8.50	75.00	7.50	65.00
Therese. Fiery rose-searlet. Sport of F. Sanders	6.40	54.00	5.60	46.00
Violet Queen. Sport from Opal Queen, violet	8.50	75.00	7.50	65.00

TULIPS SPECIES

Fosteriana Red Emperor			8.50	75.00

KEIZERKROON

Single Early Tulips

SINGLE SCARLET ORANGE AND CRIMSON

	Top Size 12 ctm. and up 100	1000	First Size 11-12 ctms. 100	1000
Brilliant Star. Vermillion searlet; very early. Use for early flowering. Bring in from December 15th			$5.20	$42.00
Couleur Cardinal. Brilliant crimson; fine bedder. For pots or cutflowers. Start and bring in Jan. 25th. For Easter pans plant bulbs in late Nov.			4.60	36.00
Cramoisi Brilliant. Bright scarlet. Bring in after Jan. 15th			4.60	36.00
Fred Moore. Dark orange, edged yellow. Start and bring in from Dec. 25th			4.60	36.00
Prince of Austria. Orange-vermillion; large. Bring in Jan. 5th			4.50	35.00
Prince Carnaval. Red flamed yellow. Bring in Jan. 5th			6.20	52.00
Vermilion Brilliant. Dazzling vermillion-scarlet. Use for pots only. Bring in Jan. 1st. Good for Valentine's day			5.20	42.00

SINGLE WHITE

White Hawk. White; very fine. Bring in from Jan. 1st			4.60	36.00

SINGLE PINK AND ROSE

Ibis. Dark brilliant pink. Start to bring in from Jan. 1st. Can be used for pots or cutflowers			4.60	36.00
Pink Beauty. Bright rose-pink shading to blush-white. Use only for Easter pots			8.50	75.00

SINGLE STRIPED, MARGINED

General de Wet. Golden, flushed and stippled fiery-orange-scarlet. For pots or cutflowers. Start bringing in after Jan. 5th	$5.60	$46.00	4.60	36.00
Keizerkroon. Red, with distinct wide golden border, one of the finest early tulips. Bring in from February 1st. Good for late pots	7.00	60.00	6.00	50.00
Sunburst. Orange yellow flushed red. For cutflowers or pots. Start to bring in after Jan. 20th			4.60	36.00

SINGLE YELLOW

Rising Sun. Golden yellow. Bring in after Jan. 20th			4.50	35.00
Yellow Prince. Golden yellow; fine forcer			4.50	35.00

MENDEL TULIPS

Her Grace. Rosy pink. The best pink Mendel tulip in the market. Good for pots or cutflowers. Bring in from December 25th	6.20	52.00	5.20	42.00
Orange Wonder. Very large bronzy orange—fine garden tulip	6.40	54.00	5.60	46.00
Van Der Eerden. Bright crimson red. For pots or cutflowers. Bring in after Jan. 5th	5.20	42.00	4.50	35.00

DOUBLE EARLY TULIPS

Early Double Tulips

DOUBLE PINK

	First Size 11-12 ctms. 100	1000
Tulips marked* are Murillo tulip sports and can be brought in from Jan. 10th.		
★**Electra.** Beautiful dark-rose	$5.50	$45.00
★**Peachblossom.** Bright pink	5.50	45.00
★**Triumphator.** Immense double pink, dark salmon, an excellent variety	5.50	45.00

DOUBLE RED

Dante. Geranium red. Bring in Dec. 20th	7.00	60.00
Searlet Cardinal. For pots. Bring in from December 20th	5.50	45.00
Vuurbaak. Bright scarlet with orange flush. Use for late pots. Bring in slowly from February 10th	7.00	60.00

DOUBLE YELLOW

Couronne d'Or. (Crown of Gold). Beautiful rich golden yellow; marked with orange red. Excellent for pots. Start and bring in from December 30th	5.50	45.00
★**Mr. Van der Hoeff.** Pure yellow	5.50	45.00

DOUBLE WHITE

★**Schoonoord.** Pure white	5.50	45.00

DOUBLE STRIPED OR OTHERWISE COLORED

	First Size 11-12 ctms. 100	1000
★**Marechal Niel.** Golden yellow flamed salmon orange	$5.50	$45.00
★**Orange Nassau.** Deep orange red	5.50	45.00
Toreador. Scarlet-edged, buff-yellow. For pots. You can bring in from Jan. 5th	5.50	45.00

Double Late Tulips

	Top Size 12 ctm. and up 100	1000
Excellent for pots. Use for late flowering.		
Coxa. Carmine-red. Vermilion edged, very small white border. Large (20 in.) flower. Bring in after Jan. 25th	$8.50	$75.00
Eros. (20 In.) The large double flowers are of a deep true pink with silvery high-lights. Its double flowers, borne on tall, strong stems, are compared to peonies by all who see them, but we do not know any peony which has its lovely coloring. If you force any do not bring in until after February 15th	10.00	90.00
Livingstone. Bright red. Good for pots. Can start to force after Jan. 15th	7.00	60.00
Mount Taeoma. (24 In.) A magnificent giant double white Tulip which reminds one of a peony in full bloom; Bring in after Jan. 25th	6.40	54.00
Uncle Tom. Dark glittering red. Bring in after Jan. 20th	11.00	100.00

HYACINTHS

Imported Hyacinths

All January and February forcing should take place in darkness until the sprouts reach about 4 inches growth. Later in season the sprouts will have reached this height outside or in the bulb cellar and can therefore be placed directly on the bench in the greenhouse. If you wish Hyacinths for Easter or later keep bulbs in warm dry place and plant December to middle of January. Never bring in Hyacinths until buds are visible and Bulbs well rooted.

SINGLE BLUE

Bismarck. Bright light blue. For early pots. Start to bring in December 22nd.
Grand Maitre. Dark porcelain. Bring in after January 1st. This often "splits" sending up several shoots instead of one spike.
King Of The Blues. Dark blue. Good for late pots. Start to bring in January 15th.
Myostis. Light blue. Bring in after January 1st.
Ostara. Clear blue. Bring in after December 22nd.
Queen Of The Blues. Light, azure blue. Bring in after Jan. 18th.

SINGLE WHITE

Edelweiss. Pure white. Compact spike. Bring in after January 15th.
L'Innocenee. Pure white, compact truss on short stem, fine for pots. Bring in December 22nd.
Carnegie. A fine late white.

SINGLE RED AND ROSE

Anne Marie. New very early Pink.
Gertrude. Rose-pink. Bring in from January 1st.
Jan Bos. Scarlet. Bring in from December 22nd.
La Victoire. Red, good spike. Bring in from January 1st.
Marconi. Rose-pink. Start to bring in January 5th. Also good for late pots.
Pink Pearl. Clear pink. Bring in about December 22nd. One of the best pinks.
Queen of Pinks. Rosy pink. Start to bring in January 15th. Excellent for late pots.

SINGLE YELLOW

City of Haarlem. Golden yellow. Bring in after January 15th. Grows slowly to get color.

	Doz.	100	1000
19 ctms. and up (Top Size)	$2.30	$16.00	$145.00
18-19 ctms (First Size)	2.00	14.00	125.00
17-18 ctms (Second Size)	1.80	12.00	100.00
16-17 ctms (Third Size)	1.50	10.00	85.00
15-16 ctms (Bedding Size)	1.25	8.00	72.00

HYACINTH "ROSALIE"

Early flowering plants which can be forced to flower early December. Can also be sold over counter to be grown in dishes for house culture in pebbles or peat, as early as French Roman with spikes much larger and stronger.

	100
14-15 ctms	$9.00
15 ctms and up	12.00

French-Roman Hyacinths

These extremely early flowering hyacinths with their long spikes and well placed bells make excellent material for design work, when stock is scarce. Also very useful for retail cutflower work during the holidays. Grow in flats and use for cutting same as Paper Whites.

		Doz.	100	1,000
White.	13-14 ctms	$1.70	$10.50	$95.00
Blue.	14 ctms	1.00	6.80	58.00
Pink.	13 ctms	1.60	10.30	93.00

Please indicate if you will allow us to substitute other varieties and sizes on your order for Hyacinths.

Narcissi—American, French and Holland Grown

All Dutch cases are put on well ventilated ships so that you will receive the bulbs in good condition. Our New York branch sees that the bulbs are cleared through customs promptly.

Our American-grown bulbs are grown in Oregon, and Washington where narcissi bulbs grow best. After digging, our bulbs are stored in temperatures that have been found most satisfactory by eminent English and Dutch experimenters. This hastens the flowering period and keeps the bulbs firm.

For very early forcing we recommend American grown Pre-cooled King Alfred.

NORTHWEST GROWN STOCKS
All Yellow Trumpets

	100	1000
King Alfred DN No. 1 Pre-cooled. Bring in about November 28...	$11.00	$95.00
King Alfred DN. No. 1. Regular. Bring in December 15th...	10.00	85.00
King Alfred DN No. 2. Regular. Bring in after January 1st...	6.50	55.00
Aerolite. Bring in about December 20th...	10.00	90.00
Rembrandt. Bring in about December 20th...	10.00	90.00

YELLOW TRUMPET VARIETIES	Holland Grown Double-Nose No. 1 100	1000
Beersheba. Large creamy white...	$12.00	$110.00
Flower Carpet—(Trumpet) Free flowering yellow trumpet...	10.00	90.00
Golden Harvest—Very large rich golden yellow. For pots or cutflowers bring in January 5th...	11.00	100.00
Imperator (Trumpet) Large creamy white...	12.50	110.00
King Alfred—Very large rich golden yellow. For pots or cutflowers bring in January 10th...	10.00	85.00
Rembrandt—(Trumpet) Free flowering yellow...	10.00	85.00
BI-COLOR VARIETIES		
Magnet (better than Spring Glory) White Perianth yellow trumpet...	10.50	95.00
OTHER CLASSES		
Actaea (Poeticus) Large Poeticus pure white, cup yellow fiery-red edged bring in after Feb. 1st...	7.50	65.00
Carlton—(Incomparable) Perianth sulphur-yellow, cup clear yellow bring in about January 10th...	7.50	65.00
Cheerfulness—(Double Poetaz) Creamy white bring in after February 15th...	7.50	65.00
Clamor. Perianth white, cup yellow orange Red-edge good for pots...	7.50	65.00
Early Perfection—(Poetaz) White and yellow bring in after January 1st...	7.50	65.00
Fortune—(Incomparabilis) Perianth deep yellow, large orange red trumpet bring in after Jan. 15th	8.50	75.00
Francisca Drake—Wide filled cup of deep orange with pure white petals...	7.50	65.00
Geranium—(Poetaz). Clusters of white flowers orange cup...	7.50	65.00
John Evelyn Ivory white perianth, large flat apricot crown, heavily frilled...	7.50	65.00
Laurens Koster—(Poetaz) White with orange yellow cup. Bring in after January 20th...	7.50	65.00
Mrs. E. H. Krelage—(Trumpet) Perianth white, trumpet sulphur-yellow passing to white. Bring in January 25th...	11.00	95.00
Mrs. R. O. Backhouse White perianth, pink trumpet...	12.50	110.00
Siam—(1 Pink trumpet)...	16.00	150.00
Texas—(Double) Yellow and fiery orange, fine for pots. Good for Valentine day. Bring in about January 15th...	9.75	87.50
Twink—(Double) Primrose and clear orange, fine for pots. Bring in about January 5th...	9.50	85.00
Von Sion—(Double) Yellow, fine for pots. Bring in January 10th...	9.50	85.00
Mixed Narcissus for naturalizing Medium size...	4.50	35.00
Large size...	6.00	50.00

KING ALFRED

Narcissus Paper White Grandiflora
IMPORTED
Ready in September

Still in great demand for selling over the counter and for growing in dishes. Every Florist shop should carry them. Order early, supply only limited.

Paper Whites. Write for Prices on 5 or More Cases.	100	1000
13 ctms...	$6 80	$58 00
14 ctms...	7.50	65.00
15 ctms...	8 00	70.00

Grand Soliel D'Or. Yellow Paper White.

	American Grown 100	American Grown 1000	French Grown 100	French Grown 1000
14-15 ctms...	$7.00	$60.00	$10.00	$ 90.00
15-16 ctms...	8 00	70.00	11.00	100 00
CHINESE SACRED LILIES				
14-15 ctms...	6.80	58.00	.....	.....

Sell Daffodils This Fall

We offer a special picture package in brilliant color containing 25 mixed bulbs, and giving cultural instructions. Sure to be a rapid seller. No waste, no picking over.

25 mixed hardy daffodils in picture packages, 10 pkgs. $12.50
Retail for 20.00
Profit $ 7.50

20 packages for $24.00; Prices F. O. B. Chicago.

Vaughan's Lily Bulbs

We are careful to know their source, and bulbs are prepared with the correct storage until shipped to give you best results.

A FREE BLOOMING STRAIN CROFT LILIES

CROFT LILIES
WEST COAST GROWN

Our bulbs will be generously graded with a double check of a minimum weight requirement per case. All Vaughan's bulbs will be from fields inspected by us twice during the growing season. Packing is done with our supervision and per our specifications.

We do not plan to use the new polyethylene wrap this year as we are afraid of increasing the scale tip rot with this method of packing.

Pot Lilies 1 inch from the bottom of pot so that there is plenty of soil above the bulb for the stem or feeding roots. Be sure the soil level is the same height in all pots about ¾ inch from top so that when pots are watered all pots receive about the same quantity. Close attention to the above encourages even growth of plants and less shifting later.

We recommend feeding plants every week after 2 inches high with a balanced fertilizer high in nitrogen particularly to avoid "leaf spot." An 8-8-8 of soluble type of 2 lbs. in 100 gallons of water is safe to water in the pots once a week. Water with the solution of fertilizer at night so there is less danger of temperature going up and causing burning and be sure the plants are not suffering from lack of water or dehydration before fertilizer and water solution is applied. This also prevents dehydration due to concentration of salts outside of roots.

Experiment stations are recommending an application of Hydrated Lime or ground limestone as addition to soil if leaf spot has been troublesome every year. It may be added after potting with beneficial results when early observation shows trouble. A tablespoon of ground limestone to a 6 inch pot watered in well is usual procedure. A soil acidity test with gradual application to keep soil at about 6.5 is more scientific.

Our bulbs will be cooled properly for easy forcing in 120 days at 60 degrees with maximum bud count.

CROFT PRICES Subject to Change

	Per 100	Per Case
7-8 inch (250) Bulbs to case	Prices in September	
8-9 inch (200) Bulbs to case		
9-10 inch (150) Bulbs to case		
10-11 inch (100) Bulbs to case		

ACE LILIES

	Per 100	Per Case
7-8 inch, case lot (250 to case)	Our price is set in September	
8-9 inch, case lot (200 to case)		
9-10 inch, case lot (150 to case)		

LILIUM CANDIDUM
(MADONNA LILIES)

Shipment August 15, October 1st

	100	1,000
18-20 ctm (7-8 inches)	$13.50	$125.00
20-22 ctm (8-9 inches)	17.00	160.00
24-26 ctm (10-11 inches)	24.00	225.00
26-28 ctm (11-12 inches)	28.00	265.00

Write us in June if you desire price quotations on Lilies. Advance orders are almost always priced lower then spot orders for they save us gambling on sales.

LILIUM ERABU

We can ship in September for early cut flowers.

	Per 100	Per Case
6-8 inch (400 per case)	$12.00	$40.00
7-9 inch (300 per case)	15.00	39.00
8-10 inch (225 per case)	18.00	35.00
9-10 inch (200 per case)	20.00	35.00

ESTATE LILIES

Grown on the West Coast. Especially fine for cut flowers for Spring, Summer and Fall blooms. It is free flowering, tall, and has flowers equal to Croft about 10 days more growing time required than for Croft.

7-8 inch (250)	Prices later
8-9 inch (200)	
9-10 inch (150)	

GEORGIA LILIES FLORIDA GROWN

A very free flowering type. Georgia bulbs do not grow into single nose large sizes. It grows tall plants in the greenhouse and is fine for cut flowers. It has been relatively free from mosaic. Requires 15 days longer to bloom than Creoles. Grow cool.

6½-7 inch 300 bulbs per case	Per case	Prices later
7-8 inch 250 bulbs per case	Per case	
8-9 inch 200 bulbs per case	Per case	

FLORIDII OR CREOLE LILIES GROWN IN FLORIDA

We buy from only the cleanest fields that we inspect at least twice during the growing season.

Give Creoles plenty of space and light. Lack of light has been found the cause of bud blasting and splitting in recent experiments.

6½-7 inch 300 bulbs per case	Per case	Prices later
7-8 inch 250 bulbs per case	Per case	
8-9 inch 200 bulbs per case	Per case	

LILIUM REGALE

The flowers are white, shading to yellow in the center, with a pink tinge on the outer edges.

	Per 100
6-7 inch	$14.00
7-8 inch	16.00
8-9 inch	19.00
9-10 inch	25.00

Imported Japanese Lilies (Late Nov. Delivery)

LILIUM GIGANTEUM

	Per 100	Per Case
7 to 9-inch (300 to case)	$14.00	$35.00
8 to 10-inch (225 to case)	18.00	38.00
9 to 10-inch (200 to case)	23.00	42.00

AURATUM—GOLD-BANDED

Flowers white, dotted crimson, with a clear golden band running through center of each petal; very fragrant.

	Per 100	Per Case
8-9 inches (200 bulbs to case)	$20.00	$35.00
9-11 inches (125 bulbs to case)	30.00	35.00
11-13 inches (90 bulbs to case)	39.00	35.00

SPECIOSUM RUBRUM MAGNIFICUM

Flowers are of good substance; will last a long time and do not all open at once. One of the best varieties for cold storage purposes.

	Per 100	Per Case
7-9 inches (250 bulbs to case)	$18.00	$38.00
8-9 inches (200 bulbs to case)	20.00	35.00
9-10 inches (140 bulbs to case)	24.00	32.50
9-11 inches (125 bulbs to case)	30.00	32.50
11-13 inches (90 bulbs to case)	36.00	32.50

MISCELLANEOUS BULBS

CROCUS—Large Flowering

	8–9 Ctms. 100	8–9 Ctms. 1,000	9–10 Ctms. 100	9–10 Ctms. 1,000	10–11 Ctms. 100	10–11 Ctms. 1,000
Blue and Purple and Striped	$4.00	$30.00	$4.50	$35.00	$5.00	$42.00
White	4.70	37.00	5.20	42.00	6.00	50.00
Yellow	5.50	45.00	6.00	50.00	7.00	60.00
Mixed	4.50	35.00	5.00	40.00	5.50	45.00

Fall Flowering Crocus

	100	1,000
Crocus Zonatus	$2.00	$15.00
	doz.	100
Colchicum Autumnale (Blooms without soil) Large bulbs	$3.00	$20.00

IXIA

These easily grown, quick selling bulbs are rapidly becoming popular as cut flowers. Planted from September to early December in pots or bench, they produce beautiful, long stem flowers during late February and early March. Main requisites for successful growing are careful watering at beginning of growth, and a cool temperature (Carnation temperature, or cooler).

	100	1,000
Mixed	$2.50	$15.00

IRIS—Wedgewood

	American Grown 100	American Grown 1,000	Holland Grown 100	Holland Grown 1,000
Standards Blue. Falls lighter blue. Very reliable bloomer. The larger bulbs can be brought into flower in January.				
8-9 ctms.	$2.00	$16.00	$2.00	$15.00
9-10 ctms.	4.00	30.00	3.00	24.00
10 ctm. and up	5.00	42.00	5.00	40.00

DUTCH IRIS

	Holland Grown 100	Holland Grown 1000
Prof. Blau. Midseason. Strong growing, dark blue.		
10 ctm. and up	$4.60	$38.00
Blue Triumphator. Clear blue follows wedgewood in blooming time.		
6-7 ctms.	1.50	10.00
7-8 ctms.	2.50	16.00
8-9 ctms.	3.00	24.00
Golden Harvest. Golden yellow.		
6-7 ctms.	1.50	10.00
7-8 ctms.	2.50	16.00
8-9 ctms.	3.00	24.00
H. C. Van Vliet. Deep blue.		
6-7 ctms.	1.50	10.00
7-8 ctms.	2.50	16.00
8-9 ctms.	3.00	24.00
Imperator. Deep blue.		
6-7 ctms.	1.50	10.00
7-8 ctms.	2.50	16.00
8-9 ctms.	3.00	24.00
White Excelsior. Pure white.		
6-7 ctms.	1.40	8.00
7-8 ctms.	2.20	12.00
8-9 ctms.	2.80	18.00
White Superior. Best white strong grower.		
6-7 ctms.	2.50	18.00
7-8 ctms.	3.50	25.00
8-9 ctms.	4.50	35.00
Yellow Queen. Standards, pale yellow. Falls golden yellow.		
6-7 inch	2.50	16.00
7-8 ctms.	3.00	24.00

AMARYLLIS

Giant Hybrid Amaryllis

FAMOUS IMPORTED HOLLAND STRAIN AMARYLLIS

Sensationally large well formed flowers. Brilliant colors. Greenhouse grown. True to color. These bulbs sell.

Prepared Bulbs for Jan. Flowering Delivery about Nov. 15th

Size, 30 up ctm. (4 inches)—orange, red, scarlet, dark red, salmon, striped, white—(retail $4.50 ea.) Cost to you $2.50 ea.

Regular (Flowering March)

Size, 30 ctm. and up (4 inches) orange, red, scarlet, dark red, Salmon, striped (retail $3.00) Cost to you, $1.80 ea.

SELECTED MIXED HYBRIDS (American Grown)

	Doz.	100	1,000
2¼-2½ inch	$2.10	$14.50	$135.00
2½-2¾ inch	2.60	18.50	175.00
2¾-3 inch	3.40	24.50	235.00
3 inch and up	6.00	40.00	350.00

CHIONODOXA (Glory of the Snow)

These are among the most beautiful of our spring-flowering bulbs, coming into bloom soon after the snow is gone. Grows well in any good garden soil, and when once planted requires no further care. Looks best when planted in lines or clumps.

Lucillae. Flowers of a brilliant sky-blue color with white center Per 100, $2.20; per 1,000 $12.00.

Sardensis. Deep blue. Per 100, $2.20; per 1,000, $12.00.

SNOWDROPS

	100	1,000
Single, 6 ctms, and up	$3.40	$24.00
Double, 5-6 ctms.	4.50	35.00

SCILLAS

Campanulata Blue	$2.70	$17.00
Campanulata Rosea	2.70	17.00
Campanulata White	2.70	17.00
Nutans Blue	3.00	20.00
Nutans White	3.50	25.00
Siberica Blue	3.00	20.00
Spring Beauty, improved siberica, brighter blue	3.25	22.50

MUSCARI (Grape Hyacinth)

Make good pot plants some growers use for cut flowers you can bring into greenhouses after January 15th.

	8–9 Ctms. 100	8–9 Ctms. 1,000	9–10 Ctms. 100	9–10 Ctms. 1,000
Armeniacum. Deep blue, large flowers	$2.10	$11.00	$2.40	$14.00
Early Giant. Improved Armeniacum. Larger bells and a little lighter in color. Blooms about 10 days earlier.	2.10	12.00	2.40	14.00

Alba. Pure white. Tops size per 100, $3.25; 1,000, $22.50.

ANEMONES

Ready in September

One of the most showy flowers, good for cut flowers. They thrive in any soil except a very heavy clay. Set 10 inches apart, about ½ inch deep. Sunny location, plenty of moisture.

	Per 100	Per 1,000
DeCaen, Single Poppy Type, mixed, ¾-⅞ in...	$5.20	$42.00
⅝-¾ inch	3.80	28.00
DeCaen, Blue Poppy, bright blue, ⅝-¾ in.	4.50	35.00
DeCaen, His Excellency, bright scarlet, ⅝-¾ in.	4.50	35.00
DeCaen, The Bride, white, ⅝-¾ in.	4.50	35.00
DeCaen, Sylphide, pink, ⅝-¾ in.	4.50	35.00

Anemone St. Brigid Irish Champions. The largest flowered strain of Anemones ever offered in the United States. Large, brilliant flowers in a wide variety of colors, 90% full double.

	Per 100	Per 1,000
½-⅝ in. Bulbs	$2.50	$18.00
⅝-¾ in. Bulbs	4.50	35.00

CALADIUMS—Vaughan's Special Fancy-Leaved

CALADIUMS are easily grown but should not be put in a Carnation temperature. Start the bulbs in flats, turning them upside down, since this is a crown-rooting bulb and the roots come out around the top (center) eye. This direct contact with the growing medium produces roots more quickly than the opposite method. Use a mixture of one part leaf-mold, one part good garden loam, and one part peat moss or other coarse neutral material, throwing in a small amount of coarse charcoal or other rubble for drainage. Press the bulb halfway into the soil and place the flats under a bench. The flats can also be placed on top of the flows, but if this is done, they should be shaded. The temperature should be 80 to 85 degrees or higher, as the higher the temperature, the better starting results you will have. Be careful that the flats do not dry out if placed either on the flows or returns. Water sparingly until the bulbs begin to sprout and have roots 4 to 6 inches long. When the sprouts begin to show, place the bulbs in 5 or 6-inch pots, using a good rich leaf-mold. Water copiously when in full growth and use weak liquid manure once weekly if possible.

NAMED VARIETIES OR ASSORTED

	Doz.	100	1,000
No. 2 Size 1 inch—1½ inch	$2.00	$12.00	$100.00
No. 1 Size 1½ inch—2½ inch	2.50	17.50	150.00
Jumbo 2½ inch—3½ inch	3.50	27.50	250.00
Mammoth 3½ inch and Up	5.00	35.00	325.00

GLOXINIAS

Belgian brown (Ready December 1st).

Etoile de Feu—bright red
Defiance—red scarlet
Roi des Rouges—deep red
Emperor Frederik—red with white border
Emperor Wilhelm—blue with white border
Mont Blanc—pure white
Prince Albert—deep blue
Violacea—blue violet
Blanche de Meru—white with pink border
Queen Wilhelmine—carmine
Tigrina—spotted
Princess Elisabeth—light blue with white border
Waterloo—deep red
Wandsbecker Blut—shining deep red
Tigrine red—one red spotted
Hollywood—novelty, blue going over to scarlet purple. Very early large flowers.

	Doz.	100	1,000
1¼-1½ inches	$1.40	$ 9.00	$ 80.00
1½-2 inches	2.50	16.00	150.00
2½ inches and up	3.00	23.50	225.00

EARLY DUG

Shipment from Chicago or N.Y., 1st week in November.

We have made arrangements for a large quantity of these this year. They have become quite popular as the additional growing time produces a superior plant. Add **10 percent** to above prices for these.

LEUCOCORYNE IXIODES ODORATO (Glory of the Sun)

Heads of large, fragrant flowers, blue with white center, carried gracefully on a wiry stem about eighteen inches tall. Culture same as freesias. This novelty has received much favorable comment, winning several European awards. ½-⅝ in., per doz., 95c; per 100, $6.50; per 1,000, $55.00.

ST. BRIGID ANEMONE

RANUNCULUS VICTORIA HYBRID

RANUNCULUS

Bulbs are claw-like in shape and should be planted with claws downward two inches deep and ten inches apart. Soak bulbs same as Anemones. Vaughan's exclusive Victoria Hybrids have no rivals in abundant bloom, percentage of doubles, strong stems, and size of flowers. The color range embraces pink, yellow, orange, brilliant scarlet, vivid apricot and innumerable tints of these colors.

Tops ⅞ to 1 inch.....per 100, $6.25; per 1,000, $52.50
No. 1 size ¾ to ⅞ inch.....per 100, 4.50; per 1,000, 35.00
No. 2 size ⅝ to ¾ inch.....per 100, 3.25; per 1,000, 22.50
No. 3 size ½ to ⅝ inch.....per 100, 2.40; per 1,000, 14.00

ORNITHOGALUM

	Doz.	100	1,000
Arabicum, Star of Bethlehem, white with black base. 2-2¼ inches	$0.95	$6.50	$55.00

WHITE CALLA

(Aethiopica) Ready in September

Callas being natives of swampy regions grow to best advantage where there is an abundance of moisture, and are therefore very difficult to handle in the curing. Some growers practice **premature cutting off the tops**, expose bulbs to **the sun**, in order to make early shipment.

Our stock is **thoroughly cured in the ground** and **dried carefully** before they are packed. This means **later delivery** but better results can be obtained from such bulbs.

We caution forcers of Callas to water this stock sparingly after planting because Calla bulbs store up considerable moisture.

Size	Per 100	Per 1,000
1¼-1½ inches	$ 9.50	$ 85.00
1½-1¾ inches	16.50	155.00
1¾-2 inches	22.50	215.00
2-2½ inches	29.50	285.00

YELLOW CALLAS

(Elliotiana)

Yellow callas are very attractive as pot plants. A few pots of this golden yellow flower placed in a display window draw much attention and sales. Grow a hundred and see how quickly they sell.

	Doz.	100	1,000
2-2½ inch	$2.70	$18.00	$165.00
2½-3 inch	4.75	32.00	300.00

PINK CALLA

(Rehmanni Superba)

Truer pink than the old Rehmanni and make larger plant with longer stems on the flowers. Blooms sold very well on all major markets.

	Doz.	100	1,000
1¼-1½ inches	$1.70	$14.00	$120.00
1½-2 inches	2.25	16.00	140.00
2-2½ inches	3.00	22.00	200.00

Snaps — "Second Call" for "Spring Blooming"

Second sowings are usually made from August 15th to October 1st, depending on when plants are to be benched and if they are to be grown Single Stem or as a Pinched Crop.

SINGLE STEM CROP. Please refer to tables below for sowing and spacing for, considering localities, we feel you will find them fairly accurate. All varieties can be used and Hybrids are to be preferred because of their strength and vigor. We have been advocating this method for **six years** which produces a longer, more uniform and better quality spike than pinched crop as vigor of plant is devoted to one spike. Also, it is produced in a shorter period of time, approximately four weeks are saved.

You can follow early or shaded "Mums" with these Single Stem Snaps for January, February and March crops and these can be followed by Spring Bedding Plants or more Single Stem Snaps or "Mums".

Recommended Spacing:

Single Stem in Inches	Flowering Date Range
4″ x 4″	May 15—Sept. 15
4″ x 5″	Sept. 15—Dec. 15
5″ x 5″	Dec. 15—Mar. 15
4″ x 5″	Mar. 15—May 15

The period from sow to direct benching is as follows:

Sowing Dates	Weeks to Plant
March 1—June 1	3–3½ weeks
June 1—Sept. 1	2–2½ weeks
Sept. 1—Nov. 1	3–3½ weeks
Nov. 1—Mar. 1	4–4½ weeks

Recommended Temperatures:

Since temperature is the basis of the crop control, accuracy of crop timing is directly correlated with accuracy of temperature control. The flowering period between Nov. 15 through to March 1 presents the most accurate results.

Sunny Day 55°–60° Night following—52°
Cloudy Day 48°–50° Night following—48°–50°
on flowering crop in greenhouse—shade glass May–Sept. 1 to reduce temperatures.

SNAPDRAGON FLOWERING SCHEDULE

TO FLOWER Starting	Finishing	Sow	Prick Off	Weeks Prick Off to Cut	Spread	Total Crop Weeks	Crop Spacing
Dec. 13	Jan. 1	8/13	8/30	15	3	18	4 x 5
27	15	8/23	9/13	15	3	18	4 x 5
Jan. 10	29	8/30	9/20	15	3	18	4 x 5
24	Feb. 12	9/2	9/23	17½	3	20½	4 x 5
Feb. 7	26	9/6	9/27	19	3	22	4 x 5
21	Mar. 12	9/13	10/4	20	3	23	4 x 5
Mar. 7	19	9/17	10/11	21	2	23	4 x 4
21	Apr. 2	9/24	10/18	22	2	24	4 x 4
Apr. 4	16	10/1	10/25	23	2	25	4 x 4
18	30	11/8	12/6	19	2	21	4 x 4
May 2	May 14	12/24	1/24	14	2	16	4 x 4

*VARIETAL GROUPING—FLOWERING SEQUENCE

For purposes of setting up a program for succession of flowering the grouping indicated here will indicate the relative sequence in which the varieties will tend to be in full flower.

	Group A	Group A	Group B	Group B	Group C
Light Pink & Rose Pink	Christina Gusta	Pink Ice Star Charter	Crusader Dorcas Jane Mary Ellen	Pompey Whirlaway	Pink Monarch Top Flight
Dark Pink			Pensive Pink Star	Rosanna	
White	Jet Pilot		Libby	Snowman	
Ivory			Apollo Citation	Margaret	Twenty Grand
Yellow	Day Star	Patricia	Seabiscuit War Admiral	Golden Spike	
Golden Bronze			Cavalcade		Gallant Fox
Dark Bronze			Barbara	Sun Briar	
Magenta & Lavender	Bold Venture				
Red				Priscilla Ann	Navajo Shisler's Red

*This schedule is based on raised bench crops.
Many factors can cause wide variations from these schedules. However, it does reflect varietal variations quite fairly.
We realize that no general agreement will ever be reached on varieties, so selection should be made according to conditions and locality.
The above flowering periods cover the range from the first cut of the early varieties to the last cut of the latest varieties.

SINGLE STEM CULTURE

***Suggested Planting Schedule—J. S. Yoder & Son Varieties.**

SOWING DATES

	Aug. 1	Aug. 15	Sept. 1	Sept. 20	Oct. 15	Jan. 2
			MAIN CUT			
Margaret	Nov. 28	Feb. 12	Mar. 18	Apr. 5	Apr. 20	May 20
Patricia	10	Jan. 1	12	Mar. 25	Apr. 15	May 15
Priscilla	10	1	10	22	15	15
Christina	10	15	15	28	20	20
Mary Ellen	15	Feb. 12	18	Apr. 1	20	20
Barbara	25	Jan. 1	10	Mar. 22	15	15
Libby	Dec. 10	Feb. 20	20	Apr. 10	25	25

*This schedule is based on ground bed culture.
These varieties will be found relatively late if compared to Flowering Sequence—Single Stem, Groups A-C, which are based on raised bench culture.

PINCHED CROP—"SECOND CALL"

Sow seeds from August 15th to October 1st, depending on whether plants are to be benched in November or December. Transplant when ready to pots or bands. When established, pinch down to three sets of leaves. By planting a heavy pinched plant flowering according to sowing time will be from February through March. Spacing is usually 7 x 8 inches. All varieties can be used but many growers prefer for this crop the medium to late or heavier growing types for with the longer days in Spring we achieve our best quality in Snaps.

SNAPS" for Greenhouse Forcing

Snapdragon being one of the leading Florist Greenhouse crops, we have followed very closely the development of the Winter Flowering or Forcing type and offer the following approved varieties.

If you are not growing Hybrid Snapdragons, suggest you try them. Due to their vigor these Early Hybrids give maximum production as a Winter Crop.

Snapdragon Recommendations

BEST SELLERS IN THEIR COLOR GROUPS

Christina. Light rose-pink.
Dorcas Jane. Light pink.
Libby. Dark rose pink.
Maryland Pink Improved. Pastel pink.
Peggy Schumann Pink. Creamy rose pink.
Whirlaway. Light rose-pink.
Priscilla Ann. Velvety Crimson.
Navajo. True red.
Shisler's Red. Wine-red.
Barbara. Bronze with pink throat.
Cavalcade. Golden bronze
Apollo. Ivory white.
Margaret. Winterblooming ivory white.
Snowman. Pure white
Twenty Grand. Mid-early ivory-white.
Patricia. Rich yellow.
War Admiral. Clear yellow.
Golden Spike. Golden yellow.
Lavender Lady. Deep rosy-lavender.
Schumann's Lavender. Rosy-lavender.

PINK AND ROSE SHADES

Trade pkt.

Better Times (Windmiller). **Hybrid.** A real American Beauty Rose red. It is a first cross like Christmas Cheer but a deeper color. Excellent for Christmas and Valentine's Day $2.00

Chevy Chase Pink (Winkler). **Hybrid.** A bright pastel pink, a shade darker than the popular Maryland Pink. Large florets and close full spike. Early and free flowering. "Shatter-resistant" will not drop its florets after cutting, unless they have been pollinated in some way..... ½ Trade pkt., $2.00 3.50

Christina (Yoder). **Hybrid. The best light rose pink Hybrid, slightly deeper in color than Mary Ellen and with larger florets. A vigorous medium early variety with almost no side growth.**..... ½ Trade pkt., $2.00 3.50

Christmas Cheer (Windmiller). **Hybrid.** The earliest rose-pink. Fine spike, excellent for Christmas and comes back for second and third crops..... ½ Trade pkt., $1.75 3.00

Crusader (Yoder Bros.). **Hybrid.** Florets of light rose pink, so popular in Dorcas Jane, coming into flower with it.... 3.00

Delworth's Supreme. A Canadian introduction by the well known grower Cecil Delworth. It is a selection of Cheviot Maid, made over a period of ten years for earliness and uniformity..... 1.50

Dorcas Jane (Dorcas). Hybrid. Light pink slightly larger flowers than Mary Ellen and shade deeper and a little earlier, with a clean habit of growth and outstanding vigor...... ½ Trade pkt., (1,000 seeds) $1.50 2.50

Gusto (Yoder Bros.) **Hybrid.** A true rose pink, somewhat deeper than Mary Ellen, earlier and more uniform to flower with florets held close to spike. Ruffled hood..... 3.00

Kathleen (Hoffman) **Hybrid.** A fast growing pastel pink with long spike and well spaced florets. The outstanding features of this variety are its excellent keeping and shipping qualities and its ability to withstand high greenhouse temperatures in Spring and Fall. A June 1st sowing will produce three full crops. A favorite in the New York Market..... ½ Trade pkt., $1.75 3.00

Libby (Yoder). **Hybrid. A dark rose pink hybrid with very strong stem and vigorous growth. Good sized flowers set medium to close on long spikes.**..... ½ Trade pkt., $2.00 3.50

Maidens Blush Improved. Appleblossom pink, white tube. 1.50

Marie Louise. Beautiful sea-shell pink. Strong and free-branching, producing long strong stems with compact flower spikes, with flowers closely set. Sow to follow "Mums."..... 2.00

Mary Ellen (Yoder). **Hybrid.** A light rose pink, blooming freely and evenly in winter. It is characterized by a stiff stem with very little side growth and a long head with medium sized, evenly spaced florets.. ½ Trade pkt., $1.50 2.50

Maryland Pink Improved. (Winkler) **Hybrid. The improved strain of this popular pastel pink hybrid is early and free flowering with a stronger stem and larger spike**..... ½ Trade pkt., $2.00 3.50

PINK AND ROSE SHADES—Continued Trade pkt.

Maxine (Smith). **Hybrid.** In color this resembles Doreas Jane with a bit more yellow in the lip. Has fine strong stem; no grassy growth; comes back quickly for a second crop... $3.00

New Times (Pan American) **Hybrid.** New. Early bright deep Beauty rose, medium long spike, fine strong stem.. ..... ½ Trade pkt., $1.75 3.00

Peggy Schumann Pink. A large close-flowering spike on a strong, sturdy stem; will not shatter and produces no blind shoots. Sow to follow "Mums.".... 2.00

Pensive (Yoder Bros.). **Hybrid.** Flowers of dark pink coming in just after Christmas Cheer. Stronger, cleaner growth than that variety..... 3.00

Pink Ice. Hybrid. A bright, medium rose with nearly white lips. Clean strong grower, outstanding flower spike. Early. ..... ½ Trade pkt., $2.00 3.50

Pink Monarch. Hybrid. Large attractive florets of rose-pink; an exceptionally hard clean stem. Midseason..... ..... ½ Trade pkt., $2.00 3.50

Pink Star (Yoder Bros.). **Hybrid.** Early, large floret, medium to long spikes, uniform and vigorous. An outstanding color, dark pink with light salmon overcast..... 3.00

Pompey. (Yoder Bros.). **Hybrid.** Rose Pink. A little deeper than Doreas Jane, earlier, more vigor and uniformity of growth and closer floret spacing 3.00

Rockwood's Pink Supreme. The well-known brilliant rose pink. Recommended for late winter and spring blooming... 2.00

Rockwood's Summer Pink No. 1. A good medium pink. For late Spring and Summer blooming only..... ..... ½ Trade pkt., $1.75 3.00

Rosanna. Hybrid. Strong, clean growing, heavy producing strain, deep rose florets, coming into flower early..... ..... ½ Trade pkt., $2.00 3.50

Rose Queen. Dark pink 1.50

Spartan Rose. Hybrid. MSC No. 13. Medium rose pink. Well placed florets of good size on large spike..... ..... ½ Trade pkt., $1.75 3.00

Star Charter (Yoder Bros.). **Hybrid.** A wide rose-pink floret similar to that of Christina; vigorous uniform growth; close spacing of florets. A beautiful flower and an excellent keeper..... 3.00

St. Louis Pink (Rowe). Beautiful shade of silvery pink, the well placed flowers being produced on wiry stiff stems. Sow to follow "Mums."..... 1.50

Top Flight (Yoder Bros.). **Hybrid.** Earlier than Christina, with the same color, floret size and length of spike. Partially shatterproof in presence of ethylene..... 3.00

Trilbee Pink (Windmiller) **Hybrid.** Vigorous grower, long spike closely set with artistic giant florets in a rich pastel pink shade. Recommended by the Introducer for Single Stem production. Late August sowing for Mid-January market..... 3.50

Whirlaway (Yoder Bros.). **Hybrid. Medium early; large floret; close spacing; long spike; a little deeper color than Mary Ellen**..... 3.00

Yoder's Cheviot No. 33. One of the parents of Mary Ellen; is uniform rose-pink, slightly deeper than Mary Ellen but with the same long stems and early flowering habit..... 1.50

"SNAPS" For Greenhouse Forcing—Cont'd

BRONZE SHADES

Trade pkt.

Afterglow. Golden bronze, Spring flowering..... $1.50

Barbara (Yoder). **Hybrid.** The large bronze florets, with pink throat and bright bronze lips, are borne on long spikes. Vigorous grower.....½ Trade pkt., $2.00 3.50

Cavaleade (Yoder Bros.). **Hybrid.** A lively golden bronze; extremely vigorous; long spikes; outstanding keeper..... 3.00

Gallant Fox (Yoder Bros.). **Hybrid.** Deep orange bronze, similar in color to Lady Dorothy; much stronger and more vigorous; compact floret placement; a little earlier than Barbara..... 3.00

Sehlegel's Early Bronze. Bright copper hood with lower part shading from deep gold to apricot. Well spaced florets on stiff stem, averaging 3 ft. in height..... 2.00

Sun Briar (Yoder Bros.). **Hybrid.** Lively orange bronze. Medium in height with a hard stem. Compared to the overall stem length, it has a very long flower spike..... 3.00

Talisman (Windmiller). Double, all bronze, true to type and color, early and continuous, a fancy flower for retail trade. Excellent for combination..... 2.00

Witterstaetter's Bronze. Well spaced spike, with a bright clear gold color. Can be pinched low. Should be planted after "Mums"..... 2.50

WHITE

Apollo (Yoder Bros.). **Hybrid. Ivory white flowers larger and more vigorous than Margaret, otherwise very similar to that variety**..... 3.00

Citation (Yoder Bros.). **Hybrid.** Very large ruffled florets of ivory white compactly spaced on long spikes. Uniform, vigorous grower, early. Comes in before Margaret, Apollo or Twenty Grand..... 3.00

Jet Pilot (Yoder Bros.). **Hybrid.** A medium early paper white; long spikes; similar to White Wonder in form; much greater vigor..... 3.00

Junglewood White (Junglewood Greenhouse). Dazzling white; deep green foliage; tall, sturdy, whiplike stems; long spikes of closely set florets; a shatterproof quality, which permits an unusual number of flowers to be open before cutting. Sow to follow "Mums".....½ Trade pkt., $1.25 2.00

Lueky Strike Improved. Popular pure white, grows three to four feet with full spike of flowers. Blooms earlier than the original; does not drop or shatter..... 1.50

Margaret (Yoder). **The most popular White on the market. A winterblooming ivory white, whiter than Lueky Strike. The stem is exceptionally stiff and there is almost no sidegrowth. The florets are of medium size; last a long time and do not shed**..... 2.00

Maryland White (Winkler) **Hybrid.** Large paper white florets on strong stem. Early, free flowering.....½ Trade pkt., $2.00 3.50

Roekwood's Crystal White. Pure white. Recommended for late spring and summer only.....½ Trade pkt., $1.75 3.00

Sehlegel's White. Early and vigorous grower for early and late planting..... 1.50

Sehumann's White. A close flowering pure white on a strong sturdy stem. Longer stem, larger head and larger individual florets than White Peggy. A companion to Peggy Sehumann Pink. Sow to follow "Mums".....½ Trade pkt., $1.50 3.00

Snowdrift (Double). A fine novelty with spike of purest white. Comes 90% true double from seed. Sow to follow "Mums".....½ Trade pkt., $1.75 3.00

Snowman. Hybrid. Pure white with no suggestion of ivory. Early.....½ Trade pkt., $2.00 3.50

Spartan White. Hybrid. MSC No. 2 Early flowering pure white on long spike.....½ Trade pkt., $1.75 3.00

Tommy Armstrong. A pure white at its best in February. Good stems, florets closely set and will not shatter. July sowing for January-February crop; November-December sowing for Easter and Mother's Day. Sow to follow "Mums"..... 2.00

Twenty Grand. (Yoder Bros.). **Hybrid. A medium early winter flowering variety; an ivory white flower similar to that of Junglewood White; a fine keeper**.... 3.00

RED

Trade pkt.

Navajo. Hybrid. A bright true red. Florets of good size on extra long spike, with hard stem.....½ Trade pkt., $2.00 $3.50

Priseilla Ann (Yoder). **Hybrid. Long graceful spikes with large velvety-crimson florets. At times a faint toueh of yellow is noted on the lip. The earliest crimson**.....½ Trade pkt., $2.00 3.50

Red Lips. Wine-red with gold lip and white tube..... 2.00

Sehumann's Velvet Red. A true dark red velvet. Sow to follow "Mums".....½ Trade pkt., $1.75 3.00

Shisler's Red. Glowing wine-red. 100% true to eolor, uniform growth with an exeellent wiry stem free of grass..... 2.00

Witterstaetter's Red. Large florets of rieh velvety red on well spaeed spikes. Should be planted after "Mums"..... 2.50

YELLOW

Day Star (Yoder Bros.) **Hybrid.** Very early; good uniformity; long spike of light yellow florets..... 3.00

Ethel. A large bright yellow flower, winter bloomer, well formed head, good stems..... 1.50

Gilbert's Yellow. Bright yellow. Gives a high pereentage first grade flowers..... 2.00

Gold Mine (Weddle). **Hybrid.** Deep golden yellow, slightly fringed. Early, with strong fine stems and spikes with exeellent plaeement of large florets.....½ Trade pkt., $1.75 3.00

Goldrush. (Winkler). **Hybrid.** A hybrid for greenhouse foreing to fill the need for a vigorous, free-flowering yellow snapdragon. The large florets are deep Jonquil yellow slightly ruffled, produeing a long, well filled spike. Sown early it will yield up to three full erops. Very uniform.....½ Trade pkt., $2.00 3.50

Patricia (Yoder). **Hybrid. The medium sized florets of rieh yellow with full deep yellow lower lip are borne on long spikes. Vigorous grower and our largest selling Yellow for Greenhouse and Cloth House eulture.**.....½ Trade pkt., $2.00 3.50

Roekwood's Summer Yellow. A fairly deep elear yellow. Reeommended for late spring and summer blooming only.....½ Trade pkt., $1.75 3.00

Sehlegel's Yellow. Early and vigorous grower for early and late flowering..... 1.50

Seabiseuit (Yoder Bros.). **Hybrid.** Uniform vigorous grower, long spike, exeellent floret formation. Clear yellow, eoming in after War Admiral, Patrieia and Day Star. Outstanding for winter or spring..... 3.00

War Admiral (Yoder Bros.) **Hybrid. Outstanding in vigor, uniformity and spike formation. The demand for this early winter flowering yellow hybrid is inereasing eaeh year**..... 3.00

Witterstaetter's Yellow. A large floreted strong deep yellow spike of vigorous non-grassy growth whieh can be pinehed low. Should be planted after "Mums"..... 2.50

Golden Spike. (Hybrid). A rieh golden yellow with long stems and flowering spikes. Flowers in January from mid-July sowing.....½ Trade pkt., $2.00 3.50

LAVENDER

This group is best sown to follow "Mums" for Spring blooming.

Ball's Lavender. A rieh lilae lavender, fine spike and long stemmed..... 1.50

Bold Venture (Yoder Bros.) **Hybrid.** Early and uniform with a hard stem. The medium sized floret best described as a rich lavender..... 3.00

Lavender Lady. Hybrid. Deep rosy lavender shade; excellent spikes and stems. For late winter and spring......½ Trade pkt., $2.00 3.50

Sehumann's Lavender. Exeellent, large flowered rosy lavender for spring blooming. Full heavy spikes.... 2.00

Windmiller's Lilae. Exeellent orchid, true to type and color, hard wiry stems, small foliage, productive..... 2.00

Witterstaetter's Orchid. A large well spaeed spike, with a rich, even orehid color; ean be pinched low..... 2.50

Greenhouse Varieties Vaughan's Special Mixture. With pinks predominating..... 1.25

For outdoor sowing in Southern States NOT for Greenhouse forcing.

ANTIRRHINUM

(About 220,000 seeds per oz.)

Vaughan's Special Rust Resistant, Majus Grandiflorum Mixed. Tall large flowering with an amazing color range. Trade pkt., 30c; ¼ oz., $1.00; oz., $3.00; ¼ lb., $9.00.

MAXIMUM OR SUPER GIANTS—2¾ ft.

Individual flowers are large, with heavy flower spikes. Especially recommended for outdoor cutting and flat sales.

Alaska. White.
Appleblossom. Rose pink, white tube.
Campfire. Pure luminous scarlet.
Copper Queen. Burnished copper.
Crimson. Fiery crimson.
Golden Glory. Deepest yellow.
Loveliness. Pure soft rose-pink.
Pink Sensation. Pure pink, frilled flowers.
Red Cross. Glowing velvet crimson.
Swing Time. Rose-pink.

	Tr pkt	Oz
Each of the above ..... ¼ oz., $1.00	$0.30	$3.00
Vaughan's Maximum Mixture. Contains all of the above in finely proportioned blend. .... ¼ lb., $9.00; ¼ oz., $1.00	.30	3.00

AGERATUM Midget Blue

Ageratum

(About 210,000 seeds per oz.)

Sow seed early to have good sized plants for spring. Plants from seed will vary some in habit.

	Trade pkt.	Oz.
Mexicanum Blue Ball Improved. 4-5 in. ..... ¼ oz., $1.30	$0.40	$4.00
★**Blue Bedder.** 4 in. Uniform compact plants bearing clusters of lavender-blue flowers. The color is deeper than that of Blue Ball. ..... ⅛ oz., 95c; ¼ oz., $1.65	.40	5.50
Blue Cap. 4 in. Dwarf compact habit. True blue flowers. Very uniform. ..... ¼ oz., $1.20	.40	3.60
★**Midget Blue.** A delightful little plant being uniformly dwarf and true to color from seed. The delicate fine foliage is practically smothered with small true Ageratum blue flowers. ..... ⅛ oz., $1.00; ¼ oz., $1.80	.50	6.00
Fairy Pink. Dwarf and compact habit, flowers delightful soft salmon-rose. ..... ⅛ oz., $1.00; ¼ oz., $1.80	.60	6.20

Alyssum

(About 60,000 seeds per oz.)

	Trade pkt.	Oz
Vaughan's Little Gem. Although one of the older standard varieties, we believe our strain surpasses all other for uniformity of height and form. It makes a neat, compact edging plant. 6 in. ..... ¼ oz., 35c; 4 oz., $3.85	$0.20	$1.10
Royal Carpet. Rich violet-purple of compact spreading habit. Remarkably uniform in color and growth, the perfect companion to Vaughan's Little Gem. Comes into flower very quickly and lasts throughout the entire season. ..... ¼ oz., $1.50	.45	4.50

Amaryllis Giant Hybrid Satan

An especially vigorous strain. The flowers are very large, 8 to 10 inches in diameter. The long stem topped with usually four very bright flowers. The color is a glowing blood-red with a somewhat deeper throat sheen. Easily grown and coming 95% true from seed. Trade pkt., (100 seeds) $1.00.

Asparagus

Plumosus Nanus. Carefully harvested, hand-picked, plump, well-matured seed of this is a specialty with us. 100 seeds, 40c; 250 seeds, $1.00; 1,000 seeds, $3.00; 5,000 seeds, $12.00; 10,000 seeds, $20.00.

Sprengeri. 100 seeds, 40c; 250 seeds, $1.00; 1,000 seeds, $3.00; 5,000 seeds, $12.00; 10,000 seeds, $20.00.

Begonias — Fibrous-Rooted

(30,000 seeds per 1/32 oz.)

We have divided this family into three sections, the dwarf growing 6 to 8 in.; those of medium height 9 to 11 in.; the taller ones 12 in. and over.

DWARF, 6 to 8 INCHES

	Trade pkt
Pink Pearl. Of dwarf, compact habit—6 to 8 inches high, this Begonia is one of the very best for pot culture. The plants form perfect balls and the flowers are well above the fresh green foliage. We recommend it. ..... 2,000 seeds	$1.50
Red Pearl. Same as above in type, and blooming habit. Color, brilliant dark scarlet. ..... 2,000 seeds	1.50
Adeline (Improved Darling). Very dwarfest habit; bright pink flowers and green foliage, very attractive. ..... 1/64 oz., $2.75; 1/32 oz., $5.00	1.25
Ball Deep Rose. Identical in habit to Adeline from which it was selected. Under winter and spring conditions the color is a deep rich rosy red which gradually fades to a bright luminous pink with the coming of warmer weather. ..... 1/64 oz., $3.25; 1/32 oz., $6.00	1.50
Ball Red. Fairly dwarf in growth and of uniform, perfectly rounded habit. The plants are literally covered with medium large flowers of the brightest scarlet red imaginable. Much more brilliant and intense than King of the Reds or Luminosa. ..... 1/64 oz., $3.25; 1/32 oz., $6.00	1.50
Ball White. A good white for pot-plant use. ..... 1/64 oz., $3.00; 1/32 oz., $5.50	1.50
Dwarf Luminosa. Bright scarlet, free flowering. Excellent pot plant. ..... 1/64 oz., $3.25; 1/32 oz., $6.00	1.25
Fire Sea. (Blaze of Fire). Fiery red flowers, green foliage. .. .. 1/64 oz., $2.75; 1/32 oz., $5.00	1.25
King of the Reds. Very dwarf, glowing scarlet, foliage, green edged bronze. ..... 1/64 oz., $2.75; 1/32 oz., $5.00	1.25
★**Snowbank.** The best dwarf white Begonia, large flowered pure white; very free flowering. Plants are compact and uniform. Foliage a bright, clear green. ..... 1/64 oz., $2.75; 1/32 oz., $5.00	1.25
★**Thousand Wonders Red** (Red Tausendschon). (Heterosis). Rich carmine scarlet.	1.50
★**Thousand Wonders** (Tausendschon). Flowers lustrous rose, absolutely even in growth and color. Plants are one mass of bloom.	1.50
Vaughan's Special Mixture of Dwarf Varieties for pots and bedding. ..... 1/64 oz., $2.75; 1/32 oz., $5.00	1.25

BEGONIA, Type of Pink Pearl and Red Pearl

BEGONIAS—Continued. Trade pkt.

MEDIUM, 9 TO 11 INCHES

Carmen. Bright rose flowers, bronze foliage. . . . . 1/64 oz., $2.75; 1/32 oz., $5.00 — 1.25

★**Indian Maid.** Bright deep scarlet buds and flowers with deep lustrous bronze foliage. . . 1/64 oz., $2.75; 1/32 oz., $5.00 — 1.25

★**Luminosa.** Deep dark scarlet flowers, foliage reddish brown. . . . . 1/64 oz., $3.25; 1/32 oz., $6.00 — 1.25

Prima Donna. Limpid rose, shading to carmine, most beautiful. . . . . 1/64 oz., $2.25; 1/32 oz., $3.75 — 1.25

Scandinavia Pink. An outstanding large-flowered pink variety for pots. Plants are of good branching habit with dark green foliage. Excellent for winter flowering. . . . . 1/64 oz., $3.00; 1/32 oz., $5.50 — 1.25

Scandinavia Red. Like above except in color. . . . . 1/64 oz., $3.00; 1/32 oz., $5.50 — 1.25

Scandinavia White. A free flowering white, selected out of Scandinavia. . . . . 1/32 oz., $5.50; 1/64 oz., $3.00 — 1.25

White Pearl. White. . . . . 1/32 oz., $5.00; 1/64 oz., $2.75 — 1.25

Vaughan's Special Medium Tall Mixture. A formula blend consisting of the above colors. . . . . 1/32 oz., $5.00; 1/64 oz., $2.75 — 1.25

TALL, 12 INCHES AND UP

★**Christmas Cheer Red.** A very large-flowered variety, color dark crimson-scarlet. . . . . 1/64 oz., $2.20; 1/32 oz., $3.75 — 1.00

★**Masterpiece.** One of the largest flowered fibrous rooted Begonias, and the clear rose-pink blossoms have made it a great favorite. The flowers fairly cover the foliage. . . . . 1/64 oz., $2.50; 1/32 oz., $4.50 — 1.25

Vaughan's Special Mixture of all Varieties. . . . . 1/64 oz., $1.80; 1/32 oz., $3.00 — 1.25

BEGONIA VARIETIES

Evansiana. Pure pink flowers carried well above the leaves. Green foliage, red-netted below. Semi-hardy, it is an excellent pot plant, too. . . . . — .85

Rex Hybrids. An outstanding mixture producing a wide range of ornamental leaved Rex Type. . . . . — 2.00

OUR RECOMMENDATIONS, indicated by a star (★), are based on personal observations by members of our staff in the growing fields of our seed suppliers. Extensive checks made at our Western Springs Trial Grounds. Consumer demand.

BEGONIA

Double Tuberous Rooted—Camellia Flowered Type

The largest and most popular of the double types; individual flowers from 5 to 8 inches in diameter, resembling camellias in all forms and variations of color. **Cultural leaflet supplied with seed.**

Apricot	Pink	Yellow
Scarlet	White	Orange
Dark Red	Rose	Mixed

Each of the above. . . . . Trade pkt. $3.00

Double Tuberous Rooted Vaughan's Special Mixture. This cream of a specialist's collection contains the lovely camellia and rose-flowered forms together with the double fringed types in charming colors from dainty light shades to the richer and darker tones. Leaflet on culture supplied with seed. . . . . Trade pkt. $3.00

Browallia

(65,000 seeds per oz.) Trade pkt

★**Speciosa Major Blue.** Flowers the size of large single violets and a rich deep blue. Sow early for cutting or pot plants at Christmas. $1.10

Calceolaria

(20,000 seeds per 1/32 oz.) Trade pkt. Oz.

★**Triumph Strain.** A truly outstanding strain. Bright shades of yellow, orange, red and rose; the flowers are large and mostly tigered or spotted. This strain produces bushy, shapely plants with clean foliage. . . . . 1/32 oz., $5.00; 1/64 oz., $2.75 — $1.10 ....

★**Grandiflora Mixed Extra Choice.** Our mixture is composed of the choicest selections of the tigered, marbled, spotted and variegated varieties. . . . . 1/64 oz., $2.75; 1/32 oz., $5.00 — 1.10 ....

Multiflora Nana Mixed. The average size of the blooms is only 1½ inches, but the amount of flowers produced is unsurpassed. The color scheme is extraordinarily gay and full of contrast. Pinch out center to make well shaped bushy stock. . . . . 1/128 oz., $2.75; 1/64 oz., $5.00; 1/32 oz., $9.00 — 1.25 ....

★**Gilbert's Multiflora Nana Mixed.** A Specialist's selection from the Type. Bright gay colors, plants uniform and compact, very free flowering. . . . . — 1.50 ....

Duplex Hybrids Mixed. Upper pouch of each flower is almost as large as the lower giving an attractive duplexed effect. A good range of color. . . . . 1/128 oz., $2.00; 1/64 oz., $3.50 — 1.25 ....

CALCEOLARIA

CALENDULA Sensation, Vaughan's Improved (Campfire)

Calendulas

(5,200 seeds per oz.)

GREENHOUSE FORCING VARIETIES

These improved varieties, while mainly grown in the greenhouse, can also be grown outdoors for cutting.

	Trade pkt	Oz.
Sensation, Vaughan's Improved (Campfire). Long stems; very double, brilliant orange flowers The blooms are very flat in shape ¼ oz., 70e; ¼ lb., $7.50	$0.40	$2.40
Gold. Has the same long stem and extra large, uniformly double flowers that are so well known in Orange Improved ¼ oz., 70e; ¼ lb., $7.50	.40	2.40
Lemon Queen Improved. Lemon yellow with dark eye ¼ oz., 70e; ¼ lb., $7.50	.40	2.40
Improved Long Orange. Attractive bright golden orange with light eye; a clearer lighter color than the regular Long Orange ¼ oz., 70e; ¼ lb., $7.50	.40	2.40
Masterpiece. Extra long-stemmed, deep orange-brown center ¼ oz., 70e; ¼ lb., $7.50	.40	2.40
White (Moonlight). A beautiful soft cream yellow. ¼ oz., 70e	.40	2.40
Vaughan's Special Mixture for greenhouse forcing ¼ oz., 60e; ¼ lb., $5.50	.35	1.80

Candytuft

(9,000 seeds per oz.)

			Trade pkt	Oz
★**Giant Hyacinth-Flowered Select, Pure White.** This is a superior strain; it grows about 1½ feet high, with enormous trusses of blooms. The best strain in existence for florists' use. Sow early in January for Mother's Day . . 4 oz., $2.90; lb., $9.00			$0.25	$0.90
Umbellata Alba. White. 12 in.	¼ lb.,	1.75	.20	.55
Lilacina. Lilac. 12 in.	¼ lb.,	1.75	.20	.55
Purpurea. Crimson. 12 in.	¼ lb.,	1.75	.20	.55
Rose Cardinal. Rose-pink. 12 in.	¼ lb.,	1.75	.20	.55
Vaughan's Special Mixed	¼ lb.,	1.75	.20	.55
Dwarf Mixed. For pots or combination baskets. ¼ oz., 30e			.20	1.00

Centaurea Cyanus

(6,500 seeds per oz.)

SUPER GIANT Cornflower

The flowers of these strains are large, fully double and colors intensified. Long stems for cutting.

May also be sown out of doors just before freezing for early spring blooming.

Black Boy. Blackish maroon.
★**Blue Boy.** Rich deep blue, very large flowers.
★**Pinkie.** Deep pink.
Red Boy. Ruby red.
★**Snowman.** Best white.
Vaughan's Mixture of Super Giant Varieties.
Each of above, Trade pkt., 20e; oz., 65e; ¼ lb., $2.20; lb., $6.50.

Cineraria

(6,000 seeds per ⅛ oz.)

	Trade pkt	Oz
★**Vaughan's Columbian Mixture.** Contains the best large flowering types and colors as well as Cremer's, Potsdam, Siter's and Gold Center strains and cannot be excelled in variety of colors, size, shape and substance of flowers and perfect habit of plant . . 1/64 oz., $2.00; 1/32 oz., $3.30; 1/16 oz., $6.00; 1000 seeds	$1.10	
★**Cremer's Prize Mixture.** Re-selected. Somewhat taller and larger flowered than Multiflora Nana . . 1/64 oz., $2.45; 1/32 oz., $4.40; 1/16 oz., $8.25	1.65	
Cremer's Improved Prize Strain. Originator's Packet	1.50	
Mammoth Mixed. A new class combining flowers of extraordinary size, 4-5 in. across, with a compact plant habit, 12 to 14 inches in height and a dense flower head. Includes all the important and popular Cineraria colors with bright red shades predominating. ½ Trade pkt., (500 seeds) $2.00; (1,000 seeds)	3.50	
Multiflora Nana Mixed, all colors 1/64 oz., $1.80; 1/32 oz., $3.30	1.10	
Gold Center. We were the introducer of this magnificent strain several years ago. It is distinguished by the golden yellow stamens—in the type they are dark. The flowers are produced in great profusion, are of the same size and color range as the Multiflora Nana. The golden yellow stamens make a wonderful contrast with the blues, reds and pinks of the flowers . . 1/64 oz., $2.20; 1/32 oz., $4.00; 500 seeds, 65e	1.10	
Potsdam Strain Mixed (Berlin Market or Weissensee). American grown seed. The plants are taller and flowers larger than Cremer's 1/64 oz., $2.00; 1/32 oz , $3.50	1.10	
Cremer's Prize Strain and Siter's Rainbow Strain in equal proportions 1/64 oz., $2.20; 1/32 oz., $4.15	1.10	
★**Siter's Rainbow Strain Mixed.** Immense flower heads of medium large flowers ranging from bright eyed types to finer pastel shades. Compact growth with small leaves. Earlier than Cremer's: 1/64 oz., $2.75; 1/32 oz., $5.00; 1/16 oz., $9.00	2.00	
Grandiflora Choice Mixed. Seed collected from prize varieties. Flowers very brilliant in an excellent range of color and of good size and substance 1/32 oz., $3.50; 1/64 oz., $1.90	1.10	
Grandiflora Dwarf Mixed. Excellent strain in a fine range of color. 1 ft 1/64 oz., $1.90; 1/32 oz., $3.50	1.10	
Star Cineraria (Cineraria Hybrida Polyantha). Feltham Beauty. Fine small flowering variety for cutting and decorative purposes, nearly all have white centers. 2 ft 1000 seeds	.85	

Clarkia Elegans Double

(100,000 seeds per oz.)

This is now much planted for cutting, both in and outdoors. If grown indoors, plants must be starved. Sow in January, grow on in flats or shallow raised bench. 2 ft.

Albatross. Pure white.
May Blossom. Glowing rose.
Salmonea Perfecta. True salmon.
Vaughan's Special Mixture.
Each of the above; Trade pkt., 20e; ¼ oz., 35e; oz., $1.10.

Coleus

(3,500 seeds per ⅛ oz.)

	Trade pkt.	Oz.
Vaughan's Rainbow Mixture. Our **Greenhouse Grown Strain** combines a wide range of brilliant richly colored medium to large leaves with a plant that is vigorous yet of uniform compact habit. 1/64 oz., $2.60; 1/32 oz., $5.00; 1/16 oz., $9.00; 1/8 oz., $15.00; ½ trade pkt., $1.00	$1.60	
Glory. Large leaves of fine form and color in a mixture of bronze, pink, apricot shades and cream. Sow seed January 1 for Memorial Day plants. ¼ oz., $7.75; 1/8 oz., $4.40; 1/16 oz., $2.75; 1/32 oz., $1.65	.70	

CYCLAMEN—PERSICUM GIGANTEUM

Cyclamen

Persicum Giganteum

☞ Our Cyclamen seed has been grown by experienced American and European growers who have specialized in this item for years.

	100 Seeds	1000 Seeds
Baardse's Wonder. Salmon with white border	$2.50	$22.00
Bonfire. Brilliant salmon	2.50	22.00
Bright Red	1.90	17.50
Dark Blood Red	1.90	17.50
Lavender	1.90	17.50
New Ruffled Mixed	2.50	23.00
Pink Pearl. (Mozart). Salmon pink	2.50	22.00
Pure Rose	1.90	17.50
Pure White	1.90	17.50
Ruffled Red	2.50	23.00
Ruffled Salmon	2.50	23.00
Ruffled White	2.50	23.00
Saffron Red Silver Edge	2.50	22.00
Salmon Scarlet (America Improved, Orange Beauty)	2.50	22.00
Salmon-Rose Improved	2.50	22.00
Salmon Dark (Glory of Wandsbek or Pearl of Zehlendorf)	2.40	20.00
Salmon Light (Rose of Zehlendorf)	2.40	20.00
Soft Rose with Carmine Eye (Improved Rosa von Marienthal)	1.90	17.50
Victoria Improved. The bloom is fringed with a bright salmon eye and balance of petals in a lighter salmon shade getting still lighter near the fringed edge and the fringed edge is always a bright salmon.	2.50	22.00
White with Carmine Eye	1.90	17.50
White Fringed	2.50	22.00
Vaughan's Florist Mixture	1.90	17.50

Vogt's Double Cyclamen

This strain comes about 80% true from seed.

Admiration. A beautiful salmon-rose with shaded eye.
Coral Pink with Mulberry Eye.
Orchid Pink.
Prosperity. An azalea type, flaming rose color.
Rosea. A soft rose with a coral cast, shading lighter at petal tips.
Double Mixed. The five above.

Each of the above 6, 100 seeds, $3.75; 250 seeds, $7.75; 500 seeds, $14.00.

Fluffy Light Pink with Eye.
Orchid Flowered Pink Shades Mixed.

Each of the above 2, 100 seeds, $4.00; 250 seeds, $8.50; 500 seeds, $16.50.

Crossandra

An evergreen and everblooming plant. Leaves are dark green, somewhat resembling the Laurel. The flowers vary from salmon pink to peach and flower over a long period. Valuable as a pot plant, attaining a height of 12 in. Likes heat, germinates best at from 70 to 80 degrees and under these conditions seed will germinate in three to seven weeks. 50 seeds, **$2.00**; 100 seeds, **$3.50**; 200 seeds, **$6.00.**

Didiscus

(10,000 seeds per oz.)

	Trade pkt.	Oz
Coeruleus, Lavender Lace Flower. Light blue-lavender flowers freely produced on good stems. 2 ft. Plant in pots to follow "Mums" or sow direct in beds thinning to 6 inches in rows a foot apart. Does not transplant well. Not over Carnation temperature needed. ¼ oz., 60c	$0.25	$1.80

Dracaena

Indivisa. (1,500 seeds per oz.) Narrow leaved. **In the Hull.** ¼ lb., $1.65; lb., $5.50	.20	.60
Clean Seed. (325 seeds per 1/32 oz.) ¼ lb., $9.00; ¼ oz., $1.00	.60	3.00

Dusty Millers

(7,000 seeds per oz.)

Centaurea Candidissima. White leaved for bedding. Start early, slow grower. 6 in. ¼ oz., $1.25	.60	$4.00
Gymnocarpa. Fine cut leaved variety with silvery foliage. 24 in. ¼ lb., $3.00; ¼ oz., 35c	.20	1.00
Cineraria Maritima Diamond. (22,000 seeds per ¼ oz.) Leaves pure white. ¼ oz., 50c	.20	1.50
Maritima Candidissima. Silvery leaves, excellent for bedding and borders. ¼ oz., 50c	.20	1.50

EXACUM (15,000 seeds per 1/64 oz.) **Affine.** Beautiful greenhouse pot plant producing sweetly scented bright mauve flowers. Flowering within 6 months from sowing. Height 9 in. Trade pkt., **$1.20**; 1/128 oz., **$3.20**; 1/64 oz., **$6.00.**

FUCHSIA Superb Mixture. An outstanding mixture produced by crosses between named varieties, doubles and singles. Will produce new hybrid varieties as well as parent types. 250 seeds, **$3.50**; 500 seeds, **$5.50**; 1000 seeds, **$10.00.**

Gypsophila

(25,000 seeds per oz.)

	Trade pkt.	Oz
★**Elegans Grandiflora White. Special Florist strain** ¼ lb., 85c; lb., $2.50		$0.30

DELPHINIUM PACIFIC GIANT HYBRIDS

Delphinium

(10,000 seeds per oz.)

PACIFIC GIANTS. This strain produces plants that are 60 to 65 per cent mildew resistant. The flowers are of immense size, tightly set on straight stems that are strong and whippy. The flowers **do not shatter** and represent a truly outstanding addition to the cut flower market.

Black Knight Series. Deep mid-night violet. The darkest of them all. Flowers of beautiful round form, with heavy velvety texture.

Blue Bird. A clear medium blue with white bee with huge tall spikes.

Blue Jay. Brilliant true medium blue with dark bee.

Cameliard Series. This is pure lavender self, with white bee.

Galahad Series. Clear white of enormous size, averaging three inches in diameter of individual flowers with very heavy glistening texture.

Guinevere. Light pink lavender self with white bee.

King Arthur. Brilliant royal violet with large white bee.

Percival. White with contrasting black bee.

Summer Skies. Clearest light blue with white bee.

Round Table Series. As the name implies, this represents all of the color combinations of the above Knights and their Ladies.

ORIGINATOR'S STRAIN

(Vetterle & Reinelt). The originator's own fine selection of the above bred for uniformity of habit and size of flower. **Each,** Trade pkt., **$2.00;** 1/8 oz., **$3.00;** 1/4 oz., **$5.50;** oz., **$20.00.**

REGULAR STRAIN

Grown especially for us by a Delphinium specialist, one generation removed from Originator's. **Each,** Trade pkt., **$1.40;** 1/8 oz., **$2.50;** 1/4 oz., **$4.50;** oz., **$15.50.**

ASTOLAT SERIES

A mixture of novel shades ranging from pale blush through pink, rose and lilac, with dark bees. Size and quality compare favorably with other Pacific Giant Hybrids.

Originator's Strain. (Vetterle & Reinelt). Trade pkt., **$2.25;** 1/8 oz., **$4.50;** 1/4 oz., **$8.00.**

Regular Strain. One generation removed from originator's. Trade pkt., **$1.50;** 1/8 oz., **$2.75;** 1/4 oz., **$5.25.**

Impatiens

The Impatiens will make splendid pot plants for Christmas and are useful for bedding and porch boxes in shady locations.

	Trade pkt.	Oz.
Holstii. (55,000 seeds per oz.) Bright vermillion. Beautiful for summer bedding. 1½ ft. ..... 1/16 oz., **$1.10;** 1/8 oz., **$1.90**	**$0.55**	....
Sultani. (20,000 seeds per oz.) Bright Rose 1½ ft. ..... 1/16 oz., **$1.10;** 1/8 oz., **$1.90**	**.55**	....
★**Beauty of Klettgau.** The flowers are fire-scarlet red, bloom abundantly and are larger than those of other sorts, reaching a diameter of 2 in. Needs to be pinched off but once. Its main characteristic being the extremely broad but still low growth. 1/32 oz., **$2.50;** 1/16 oz., **$4.00;** 1000 seeds, **$1.00;** 500 seeds	**.55**	....
Nana Carmine. Dwarf free flowering. Especially fine for pots ..... 1/16 oz., **$4.00;** 1/32 oz., **$2.50;** 1000 seeds, **$1.00;** 500 seeds	**.55**	....
★**Tall Varieties Choice Mixed.** Includes lilac, carmine, salmon pink and scarlet shades. 1/16 oz., **$1.10;** 1/8 oz., **$1.90**	**.55**	....
★**Dwarf Varieties Choice Mixed.** (70,000 seeds per oz.) Especially fine for pots, growing only 6 in. tall. Flowers continuously, in many shades. ... 1/16 oz., **$4.00;** 1/32 oz., **$2.50;** 1000 seeds, **$1.00;** 500 seeds	**.55**	....

KALANCHOE YELLOW DARLING

Kalanchoe

(14,000 seeds per 1/64 oz.)

	Trade Pkt.	Oz.
Globulifera. Var. Coccinea (Blossfeldiana). 12 inches. Bright scarlet flowers. Very choice pot plant ..... 3,000 seeds, **$1.20;** 1,500 seeds	**$0.65**	....
★**Brilliant Star.** Flowers measure three times the size of the ordinary varieties and are a rich fiery red. Foliage is dark green and of compact growth. The flower heads are carried on stems about 6 inches long, making this ideal for pots or cutting material. ..... 1/128 oz., **$2.10;** 1/64 oz., **$3.85;** 1/32 oz., **$7.00**	**1.00**	....
Ernst Thiede. Very dwarf, of compact growth and free flowering. A glowing red	**1.40**	....
Hybrida Flame. In brilliancy of color this Kalanchoe is unsurpassed. The flower heads are borne on wiry stems with up to 200 individual flowers. The color is a vivid fiery red, much more pleasing than that of other Kalanchoes ..... 500 seeds	**1.10**	....
★**Tom Thumb.** A dwarf variation of the popular K. Blossfeldiana, with the same color. The general habit is more dwarf and the very short-flowering stems form just beyond the foliage and the flowers actually envelope the entire plant. 1/128 oz., **$3.00;** ..... 1/64 oz., **$5.50;** 1/32 oz., **$10.00;** 1000 seeds	**1.40**	....
★**Yellow Darling.** Similar in habit to Type Thiede, growing 5 to 7 inches high. Flowers are a strong lemon-yellow of outstanding brightness. The color, together with the shining green leaves, make it a perfect plant for flower arrangements in combination with the dwarf red Kalanchoes, Primula Malacoides or Saintpaulia ..... 500 seeds	**1.40**	....

Annual Larkspur

(8,500 seeds per oz.)

For outdoor blooming start in flats in the house, shift into 2-inch pots and plant in April or sow in the open as soon as ground is ready. To get satisfactory germination from Larkspurs in the hot weather, it is necessary to chill the seeds in an ice box for several days before sowing. Larkspurs must be grown cool. For a greenhouse crop in May, sow in January or February.

REGAL—BASE BRANCHING

Retains the desirable height and basal branching habit of the Giant Imperials but with Delphinium-like florets on long, thick spikes. Vigorous and early.

Regal Rose. A rich Florist's rose color. Trade pkt. Oz

★Regal Pink. Brilliant pink on salmon. Distinct.

Each of the above ..... lb., $18.00; ¼ lb., $6.00; ½ oz., $1.00 $0.40 $1.80

SUPREME—BASE BRANCHING—5 ft.

An entirely new strain of Giant Imperial or base branching Larkspur, in colors greatly improved over others. Plants have an ideal upright habit, with spikes on which large fully double flowers with broad petals are closely spaced.

★Dark Blue Supreme. A fine rich violet purple, clear and bright, 5 ft.

Lilac Supreme. A pleasing clear lilac.

★Pink Supreme. A most desirable florist color.

★Rose Supreme. Clear deep rose.

Salmon Supreme. True salmon.

★White Supreme. A true white, without a trace of pink.

Supreme Mixed. A formula-blend of the above to which has been added sorts not yet introduced.

Trade pkt. Oz.

Each of the above ..... lb., $18.00; ¼ lb., $6.00; ½ oz., $1.00 $0.40 $1.80

GIANT DOUBLE IMPERIAL—
The Base Branching Type—4 ft.

This type is the most desirable for outdoor growing; of upright growth, branching from the base of plant, producing more and longer flower stems for cutting.

Blue Bell. Fine medium blue.

Blue Spire. Dark blue.

Brilliant Rose.

Carmine King Improved. Distinct. Holds its color under trying conditions.

Exquisite Pink Improved. Soft pink shaded salmon.

Gloria Improved. Rich, deep rose-salmon.

★Lilac Spire. Rich lilac.

★White King. Glistening pure white.

Each of the above, trade pkt., 30c; ¼ oz., 50c; ½ oz., 90c; oz., $1.60; ¼ lb., $5.25; lb., $16.00.

Giant Imperial Vaughan's Special Mixed. All colors. Trade pkt., 30c; ¼ oz., 50c; ½ oz., 90c; oz., $1.60; ¼ lb., $5.25; lb., $16.00.

Lupinus

(1,300 seeds per oz.)

Free-flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for cutting to follow "mums" or sweet peas as a "catch crop." Sow 3 or 4 seeds in a 3 or 4 in. pot. Keep in cold frame until late October or November. Transplant into a ground bed and grow slowly in cool temperature. Space 10x12 inches, water well after transplanting and then keep on dry side until plants are established.

HARTWEGII GIANTS OR KING LUPINUS. This improved giant strain is over a foot taller than the ordinary strain, reaching a height of 3 or 4 feet. There are five or six long basal branched spikes to each plant, bearing closely placed giant blooms.

King Dark Blue — King Sky Blue
King Heliotrope — King White
King Mixed

Trade pkt. Oz.

Each of the above ..... lb., $8.80 $0.25 $0.95

Lobelia

(About 725,600 seeds per oz.) Trade pkt. Oz.

Erinus Compactus Crystal Palace. 4 in. Deep blue dark foliage ..... ¼ oz., 95c $0.30 $3.30

Blue Gown. Clear deep blue, without eye, fine compact habit ..... ¼ oz., 95c .30 3.30

Cambridge Blue. Light blue with green foliage: ..... ¼ oz., 95c .30 3.30

Emperor William. Gentian-blue, light foliage. 4 in. ..... ¼ oz., 95c .30 3.30

Mrs. Clibran Improved. Deep blue, white eye, light foliage ..... ¼ oz., 95c .30 3.30

White Lady (Snowball Improved.) Dwarf pure white ..... ¼ oz., $1.00 .30 3.00

Pendula. (For hanging baskets) ....

Hamburgia. Sky-blue, white eye, dark foliage .... ¼ oz., $1.10 .40 ....

Sapphire. Large deep navy-blue with white eye. ..... ¼ oz., $1.10 .40 ....

Marigold

For best results, seed should be sown from July up to December. Plant in any house that can be kept free from frost. No insect pests.

Tall African Double Fistulosa, 3 Ft.

(About 10,000 seeds per oz.)

An especially fine tall branching strain, bearing enormous flowers of the quilled type.

All Double Orange. Large perfectly formed flower heads of the quilled type coming almost 100% full-double. In our opinion, the finest long-stemmed cutflower strain. Preferred to Prince of Orange. Trade pkt., 30c; ¼ oz., 55c; oz., $1.80; ¼ lb., $5.50.

All Double Lemon. Identical to the above, except for the color which is a rich lemon-yellow. We prefer this to Lemon Queen. Trade pkt., 30c; ¼ oz., 55c; oz., $1.80; ¼ lb., $5.50.

Yellow Supreme. Rich creamy yellow, broad loose-leaved petals of honey fragrance. Trade pkt., 30c; ¼ oz., 55c; oz., $2.00; ¼ lb., $6.00.

Guinea Gold. Semi-double type with long loose petals. Brilliant shade of orange flushed with gold. 2½ ft. Trade pkt., 30c; ¼ oz., 55c; oz., $1.80; ¼ lb., $5.50.

Lieb's Winter Flowering. Mahogany brown with golden yellow crested center. For a fine winter cutflower, especially in a retail grower's establishment. Seeds can be sown from August to December. Space plants ten inches apart in bench in not too rich soil in Carnation house temperature. Trade pkt., 30c; ¼ oz., 65c; oz., $2.20.

Double Dwarf French

(About 9,000 seeds per oz.)

An early Fall planting, grown warm, will provide plants for early combination work.

Butterball. Rich canary yellow. 6 to 10 in., uniform, compact plants, very free flowering ..... ¼ lb., $6.00; ¼ oz., 55c Trade pkt. $0.30 Oz. $2.00

Extra Dwarf Harmony. 6 in. Same color as Spry but dwarfer in habit ..... ¼ oz., 55c .30 2.00

Parisian Hybrids. An important break in the Double Dwarf French group, new, distinct and beautiful. Flowers are full-double and range from pale yellow to deepest coppery red. In pattern they vary from solid colors to every conceivable variation in blotched, striped and mottled flowers. Individual blooms are 2 inches across, borne freely. Foliage a rich dark green. We know of nothing finer for bedding, equally good for cutting. 12 to 15 in. ..... ¼ oz., $1.00 .30 3.00

Spry. Very light orange crested center and maroon outer petals. 9 in. ..... ¼ lb., $6.00; ¼ oz., 55c .30 2.00

Sunkist. Attractive orange colored flowers, 1½ inches across, plant uniformly dwarf ..... ¼ lb., $6.00; ¼ oz., 55c .30 2.00

PANSIES

(About 24,000 seeds per oz.)

Pansies have long been a favorite with us. We are the introducer of the Swiss Giants to American gardens and named and introduced the Canadian variety, Maple Leaf.

★VAUGHAN'S SUPER SWISS GIANT MIXTURE

One of our leaders and represents the choicest strain of this popular and profitable flower. Combining the finest selections of several Pansy specialists, the perfect blending is further insured by the addition of separate colors that do not generally appear in the average mixture. Flowers of good substance, enormous in size, 3 inches and more in diameter, perfectly round with thick overlapping petals of a rich velvety texture, borne on strong stalks well above the luxuriant foliage. Trade pkt., **75c**; ⅛ oz., **$1.75**; ¼ oz., **$3.25**; oz., **$10.00**; ¼ lb., **$36.00.**

VAUGHAN'S DWARF SUPER SWISS MIXED

This type, being shorter and more compact, is more suitable to plant sales. The color range is as good as that of the Super Swiss. Trade pkt., **65c**; ⅛ oz., **$1.60**; ¼ oz., **$2.65**; oz., **$9.00.**

★GIANT SWISS SEPARATE SORTS

Swiss Alpenglow. Rich wine-red shades.

Swiss Berna. Dark violet-blue.

Swiss Blue (Ullswater. Thuner Sea). The most distinct rich deep ultramarine blue with darker blotches.

Swiss Coronation Gold. Flowers golden-yellow. Perfectly round flowers, slightly ruffled edges. This is the best pure yellow pansy.

Swiss Firebeacon. Bright wallflower-red with a touch of orange.

Swiss Monch. Pure yellow, early flowering.

Swiss White. Creamy white, yellow eye.

Swiss Raspberry Rose. A lovely tint of pink best described as Raspberry Rose. It has a suggestion of a lighter tone on the edges of the petal and is marked with a velvety blotch in a deeper tone.

Swiss Rhinegold. Canary-yellow with dark blotches.

Each of the above: Trade pkt., **75c**; ⅛ oz., **$1.75**; ¼ oz., **$3.25**; oz., **$10.00**; ¼ lb., **$36.00.**

ROGGLI—INTRODUCER'S SEED

Especially recommended for its large flower, and uniformity of color and habit.

Alpengluhn. Mahogany-red with darker eye.
Berna. Dark violet without eye.
Blumlisalp. Pink-carmine.
Eiger. Dark yellow with dark brown eye.
Hohenfeuer. Bright orange-red.
Jungfrau. Pure white.
Monch. Clear yellow.
Thunersee. Gentian blue with dark eye.
Elite Mixed. A blend of attractive colors.
Each of the above: Trade pkt., **$1.50**; ⅛ oz., **$3.75**; ¼ oz., **$7.00**; oz., **$22.00.**

★VAUGHAN'S SUPER MAPLE LEAF MIXTURE "CANADIAN GIANTS"

A selection of the distinct variety Maple Leaf Giants which we introduced some years ago; having large leaves of a rich dark green and flowers of gigantic size and heavy substance, with good stems, in a beautiful color range. Plants of compact and sturdy growth. Trade pkt., **75c**; ⅛ oz., **$1.75**; ¼ oz., **$3.25**; oz., **$10.00**; ¼ lb., **$36.00.**

VAUGHAN'S LONG STEMMED WINTER-FLOWERING MIXED RESELECTED

It has a much wider color range than other Winter-Flowering strains and has an excellent stem length, averaging better than 10 in. The bloom size is from 2½ to 3 in. and the flowers are of very good substance and sweet scented. Sow in summer for Mid-winter blooming and give support early. Trade pkt., **$1.00**; ⅛ oz., **$2.75**; ¼ oz., **$5.25.**

PANSY VAUGHAN'S SUPER SWISS GIANT MIXTURE

★**Delft Blue.** Porcelain-blue. Trade pkt., **75c**; ⅛ oz., **$1.75**; ¼ oz., **$3.25**, oz., **$10.00**; ¼ lb., **$36.00.**

Giant Orange. A perfectly round flower with overlapping petals of good substance. Color is a vivid orange, the upper petals carrying a halo of golden yellow. The lower petal is a deep orange. Trade pkt., **75c.**; ⅛ oz., **$1.75**; ¼ oz., **$3.25**; oz., **$10.00**; ¼ lb., **$36.00.**

Paper White. Large flowers of pure white, comparing favorably in size to the Swiss. Trade pkt., **$1.00**; ⅛ oz., **$3.00**; ¼ oz., **$5.00**; oz., **$18.00.**

Pay Dirt. Large golden yellow flower, some having dark rays others with tiny dark faces. Fine habit of growth. Quite resistant to Summer heat. Trade pkt., **$1.90**; 1/16 oz., **$3.30**; ⅛ oz., **$5.50.**

Tigress. Flowers are rather small, the reds, yellows, orchids and purples in novel striped and blotched arrangements create an appearance both striking and unusual. The so-called Pansy "face" is lacking in this variety. Trade pkt., **50c**; ¼ oz., **$1.75**; oz., **$5.00.**

VARIOUS MIXTURES

America, Ideal Bedding or Basket Pansy. Good substance with wide color range. Free-flowering. Trade pkt., **65c**; ⅛ oz., **$1.60**; ¼ oz., **$2.70**; oz., **$10.00**; ¼ lb., **$32.00.**

★**Amsterdam Giant.** A very early free flowering strain with a long season of bloom. Flowers are large, 3 to 4 inches across, and the colors bright. Coming into flower early and showing a great resistance to heat, it has proven a very popular "Basket Pansy" in the European Market, for which it was especially bred, also on the East Coast wherever grown. Trade pkt., **75c**; ¼ oz., **$3.00**; ⅛ oz., **$1.80**; oz., **$10.00.**

★**Jumbo Mixed.** Extra large and early; long stemmed flowers. An outstanding favorite in the South. Trade pkt., **85c**; ⅛ oz., **$1.95**; ¼ oz., **$3.30**; oz., **$11.00**; ¼ lb., **$40.00.**

Oregon Giants (Originator's Stock). A fine strain of giant ruffled pansies. The large flowers of heavy texture have a delicate fragrance and come in all shades and coloring. Long stems and luxuriant foliage. Trade pkt., **$1.00**; 3 $1.00 packets for **$2.00**; ½ oz., **$6.00**; oz., **$12.00.**

DISCOUNTS ON FLOWER AND VEGETABLE SEEDS:

CASH—Under $5.00 net. $5.00 to $25.00, 5%. Over $25.00, 8%.

CHARGE—$5.00 to $25.00, 3%. Over $25.00, 6%.

Lilies

Seeds sown in October or November should be transplanted into 2½ inch pots or bands 3 or 4 months after sowing. Carry along until August when they should be planted in the bench 6x8 inches apart or grown in 4 or 5 inch pot. These will grow into plants carrying 2 or 3 flowers the following Spring.

If only buds are cut at this time, letting the foliage dry down by gradually withholding water, and then placing bulbs in cold storage at 32 to 40 degrees and then potting; the next Spring a much higher bud count can be expected.

	Trade pk..	Oz.
Longiflorum Praecox (White Queen). (8,300 seeds per oz.) Produces blooms of the well known Erabu type in from 12 to 15 months after sowing Long trumpet flowers of clear white	$1.10	....

Nasturtium

(180 seeds per oz.)

Double Climbing Fragrant Varieties. Sow seed in late summer and give support early. Like cool nights and considerable water. Their bright flowers of spicy fragrance will come in handy during the winter months.

Tall Golden Gleam. Semi-double yellow.

Indian Chief. Vivid scarlet flowers.

Scarlet Gleam. Bright orange-scarlet.

Glorious Gleam Hybrids. Wonderful range of color in double and semi-double flowers.

Each of the above: Oz., 40c; ¼ lb., $1.25; lb., $4.00

	Trade pkt.	Oz.
NEMESIA (about 90,000 seeds per oz.)		
Nana Compacta Blue Gem. Blue 8 in.	⅛ oz., 65c	$0.40 ....
Edelweiss (White Gem)	⅛ oz., $1.00	.40 ....
Fire King. Cerise Scarlet	⅛ oz., $1.00	.40 ....
Orange King Rich orange	⅛ oz., 65c	.40 ....
Triumph Mixed		.40 ....

A sowing made in the Fall and grown on cool will provide excellent plants for spring combination work.

Phlox Drummondi Grandiflora

(15,000 seeds per oz.)

These grandiflora varieties make fine cut flowers. For best results, sow seed where you want them to bloom.

Alba. White

Brilliant. Rose dark eye.

Chamois Rose.

Cinnabar Scarlet. Brightest red.

Crimson.

Flaming Velvet. Deep velvety red.

Isabellina. Buff yellow.

Violet Blue.

Each of above: Trade pkt., 40c; ¼ oz., 85c; oz., $2.60.

	Trade pkt.	Oz.
Vaughan's Special Annual Mixture Contains all the Grandiflora varieties listed here and several other strains only to be had in this mixture, and will delight and astonish all with its extensive variety of colors	¼ oz., 85c	$0.40 $2.70
Gigantea Art Shades	¼ oz., $1.20	.45 3.60
Red Glory. Rich bright red with contrasting white eye	¼ oz., $1.20	.45 3.60
Salmon Glory. Pure salmon-pink with creamy white eye	¼ oz., $1.20	.45 3.60

Dwarf Master Blend

Comes into bloom early while plants are very small and continues throughout the season. A complete color range, including self colors as well as eyed florets. The perfect strain for pot and combination work, excellent for use in the border. ⅛ oz., $1.25; ¼ oz., $2.00; ½ oz., $3.50 ..... .75 6.00

Vaughan's Beauty—8 in.

Mixed. The finest strain of Large Flowering Dwarf Phlox, especially recommended for pot culture, combinations and border planting. Plants grow about 8 inches high, compact, and very free blooming. A formula-blend including all the separate colors ..... ¼ oz., $1.50 .50 4.50

PRIMULA Obconica Grandiflora

Primula Obconica

(4,000 seeds per ½ oz.) Trade pkt.

Gigantea Wyaston Wonder Crimson. Huge heads of flowers carried on strong stems well above the foliage. In spite of the vigorous growth they make a compact and tidy plant ..... ½ oz., $5.50; ¼ oz., $3.00 $1.25

Grandiflora Avalanche. White .. ½ oz., $4.75; ¼ oz., $2.50 1.25

Better Days. Deep carmine-red. Very large-flowering. The compact, well branched growth is very symmetrical and the mass of flower heads shows evenly above the dark green foliage, on strong stems. ½ oz., $4.75; ¼ oz., $2.50 1.25

Dark Blood Red ..... ½ oz., $4.75; ¼ oz., $2.50 1.25

Sky-Blue (Konigsee). Extra-large flowers ..... ½ oz., $4.75; ¼ oz., $2.50 1.25

Fasbender Red. Flowers rich deep red of enormous size. Outstanding variety ..... ½ oz., $4.75; ¼ oz., $2.50 1.25

Mueller's (Berlin) Rose ..... ½ oz., $4.75; ¼ oz., $2.50 1.25

Mixed, many colors ..... ½ oz., $4.75; ¼ oz., $2.50 1.25

Primula Chinese Giant

Vaughan's Special Mixture 1.25

Primula Malacoides (Baby Primrose)

Recent improvements in this Baby Primrose class have made it indispensable for Florist's use. Seed sown in June will flower for Christmas and September sown seed will produce nice plants for Easter and Mother's Day. Sow in sterile soil.

Our strain is grown especially for us by a Primula Specialist.

Glory of Riverside Improved. True rose-pink, a strong grower and the most valuable variety for all purposes.

Lavender New Baby Improved. While some flowers are a lavender-pink, this contains the most beautiful shades of lavender.

Lilac Beauty. The color is a pure soft lilac, absolutely fixed. This is another fine color for making up artistic combinations.

Mrs. Eriksson of Riverside. Large flowers of deep rose-red.

New Giant. Large flowers of light salmon-rose borne on heavy stems. Late to bloom.

Peachblossom Improved. Deep peachblossom pink. Plants compact, flowers large, color more intense than original, excellent keeping qualities.

Red New Baby Improved. Glowing red, large flowered. A heavy producer on long stems.

White Giant. (Pure White). Large pure white flowers on strong stems; good for combinations.

Malacoides Special Mixed. A formula-blend.

Each of the above, Trade pkt., $1.25.

Princess Mary. Deep rose pink. ¼ oz., $2.50; Trade pkt., $1.25.

Primula Chinensis Stellata

This type is indispensable for general decorative work. The plants are very floriferous and bloom for a long period. It is a good keeper, the flowers remain fresh in water for many days.

Giant Star Mixed. Trade pkt., $1.25.

PETUNIA Dwarf California Giants Master Blend

PETUNIA GIANT-FLOWERING SINGLE

(About 2,600 seeds per 1/64 oz.)

The flowers in this section measure from 5 to 7 inches across.

DWARF CALIFORNIA GIANTS

Master Blend. The best strain of giant-flowered Petunias in existence for pot culture and bedding. Flowers of largest size appear on dwarf plants ideal for pots and bedding. Blooms when plants are very small, so salable plants are quickly produced. They are bushy, 12 inches high and bear ruffled flowers freely. Warm colors predominate. 1/2 Trade pkt., **$1.00**; Trade pkt., **$1.75**; 1/64 oz., **$3.00**; 1/32 oz., **$5.50**; 1/16 oz., **$10.00**; 1/8 oz., **$19.00**; 1/4 oz., **$35.00.**

Dark Selection. A favorite with many growers and it has given universal satisfaction. 1/2 Trade pkt., **75c**; Trade pkt. **$1.25**; 1/64 oz., **$2.50**; 1/32 oz., **$4.50**; 1/16 oz., **$8.00**; 1/8 oz., **$14.00**; 1/4 oz., **$25.00.**

Ramona Strain. Dark and light shades. A dwarf sturdy growing type especially suited to pot culture. Flowers are beautifully ruffled and fringed with open well marked throats. 1/2 Trade pkt., **75c**; trade pkt., **$1.25**; 1/64 oz., **$2.50**; 1/32 oz., **$4.50**; 1/16 oz., **$8.00**; 1/8 oz., **$14.00**; 1/4 oz., **$25.00.**

Extra Dwarf Giants of California. This strain has been bred to fill the need for a truly dwarf pot Petunia. The color range has also been greatly improved and brightened. 1/2 Trade pkt., **$1.00**; Trade pkt., **$1.75**; 1/64 oz., **$3.50**; 1/32 oz., **$6.00**; 1/16 oz., **$11.00**; 1/8 oz., **$20.00**; 1/4 oz., **$36.00.**

RUFFLED GIANTS WITH LARGE-VEINED THROATS

	Trade pkt.	Oz.
Giants of California Mixed. This is a most superb mixture, not at all to be compared with the seed usually offered. 1/64 oz., **$1.85**; 1/32 oz., **$3.25**; 1/16 oz., **$5.50**; 1/8 oz., **$10.00**; 1/4 oz., **$18.00**	$0.85	....
Salmon Beauty. (Marylyn). A unique color, rich salmon. 1/32 oz., **$3.00**; 1/64 oz., **$1.65**	.85	....

LARGE SINGLE FRINGED

(About 7,800 seeds per 1/32 oz.)

(Flowers 3 to 4 inches across)

Fringed Snowstorm. Pure glistening white, of good substance, with a slight tinge of yellow in the throat. The blooms are 2 1/2 to 3 inches in diameter and deeply fringed. The habit is dwarf and spreading: breaks nicely to produce a compact plant 1/64 oz., **$2.00**; 1/32 oz., **$3.30**; 1/16 oz., **$5.75**; 1/8 oz., **$11.00**; 1/4 oz., **$20.00**	.85	....

PETUNIA Large Single Fringed—Continued

	Trade pkt	Oz
Royalty The immense ruffled and waved blossoms vary from pure white touched with purple through varying combinations of purple and white to rich self-colored blooms. Often blossoms of all these combinations appear on one plant. 1/64 oz., **$1.90**; 1/32 oz., **$3.40**; 1/16 oz., **$5.75**; 1/8 oz., **$11.00**; 1/4 oz., **$20.00**	$0.85	....
Setting Sun (Dwarf). Brilliant rose-pink fringed flowers. 1/64 oz., **$3.25**; 1/32 oz., **$5.75**; 1/16 oz., **$10.00**; 1/8 oz., **$18.00**	.85	....
Theodosia. Re-selected. Large flowered, fringed, rosy pink with a clearly defined, golden throat. Fine for window boxes. 1/64 oz., **$2.00**; 1/32 oz., **$3.30**; 1/16 oz., **$5.75**; 1/8 oz., **$11.00**; 1/4 oz., **$20.00**	.85	....
Fluffy Ruffles. Very large flowers, finely fringed and ruffled. A perfectly balanced mixture of pinks, white, salmon, deep rose, crimson and light blue. Outstanding in our Trials. 1/32 oz., **$1.65**, 1/16 oz., **$3.00**	.60	....
Ruffled Nana Compacta Little Giants, Mixed. 8–12 ins. tall. The medium sized, well ruffled and waved, deep-throated flowers continue to keep the plants completely covered. The unusually attractive colors range from deep crimson to white in every imaginable shade. 1/16 oz., **$5.00**; 1/32 oz., **$2.75**; 1/64 oz., **$1.55**	.85	....
Little Giant Pink Frills. A selection of light to dark pink shades out of the popular Ruffled Little Giants, retaining the same growth habit, size and freedom of bloom. 1/16 oz., **$5.50**; 1/32 oz., **$3.00**; 1/64 oz., **$1.75**	1.00	....

F-1 HYBRID PETUNIA VARIETIES

F-1 HYBRID GRANDIFLORAS

(6,000 seeds per 1/64 oz.)

Ballerina. Large single fringed flowers of a soft glowing salmon. Plants are dwarf and compact, the flowers 100% grandiflora. Growth and flower production show hybrid vigor. Blooms 3 1/2–4 in. across, excellent for pots and garden border.

Bolero. Carmine-rose pink flowers, well ruffled and fringed, 3 1/2 to 4 inches across. Plants uniformly dwarf and compact. Profuse bloomer; outstanding pot plant strain.

Crusader. Gaily striped rose-pink on white, one of the finest bicolor varieties. Color variegation holds quite steadily throughout summer, despite temperature variations and soil. Brilliant and unusual.

La Paloma. Large well fringed flowers 100% large flowering, pure white with yellow throat. Most uniform and vigorous grower. An early December sowing will produce Easter pot plants.

Tango. Deep salmon outside of bloom, shading to scarlet salmon nearer throat. Flowers 3 1/2 to 4 inches across, beautifully fringed. Truly dwarf strong growing and extremely free blooming. 12 to 15 inches high with spread of 2 ft. Very brilliant.

Each of the above: 1/2 Trade pkt., **$1.35**; Trade pkt., **$2.50**; 1/128 oz., **$4.50**; 1/64 oz., **$8.00**; 1/32 oz., **$15.50**; 1/16 oz., **$30.00**; 1/8 oz., **$57.00**; 1/4 oz., **$108.00.**

F1 HYBRID MULTIFLORAS

Linda (Improved Silver Medal). (3,300 seeds per 1/64 oz.) The clear light salmon pink flower has a more pronounced sheen while the plants are decidely more compact. Vigorous free flowering, it is unexcelled for pot plant and bedding use. 18 in.

Pink Sensation. (4,400 seeds per 1/64 oz.) A large flowered bedding variety of light rose pink, borne in great profusion on strong stems. Plant is uniform in habit and not inclined to sprawl.

Rose Charm. (5,100 seeds per 1/64 oz.) Clear rich rose. Flowers produced in such profusion the plants are almost entirely covered. Very showy; ideal for bedding and border.

Each of the above: 1/2 trade pkt., **$1.00**; trade pkt., **$1.75**; 1/128 oz., **$3.50**; 1/64 oz., **$6.50**; 1/32 oz., **$12.00**; 1/16 oz., **$20.00**; 1/8 oz., **$35.00**; 1/4 oz., **$60.00.**

NEW "REDSKIN" SERIES

Flowers averaging 2 1/2 to 2 3/4 inches across are freely produced on base branching plants 15 inches in height. Semi-compact in habit, the individual plant spread will often measure 18 in. Fine for bedding and pot plants. (5,000 seeds per 1/64 oz.)

Comanche. The first of the Series, introduced in 1954. Deep scarlet-red flowers.

Apache. Bright rose red. **Sioux.** Medium salmon tone.
Mohawk. Bright rose pink. **Paleface.** Pure white.

Each of the above: 1/2 trade pkt., **$1.00**; trade pkt., **$1.75**; 1/128 oz., **$3.50**; 1/64 oz., **$6.50**; 1/32 oz., **$12.00**; 1/16 oz., **$20.00**; 1/8 oz., **$35.00**; 1/4 oz., **$60.00.**

PETUNIAS—Continued

LARGE SINGLE PLAIN EDGED

(7,800 seeds per 1/32 oz.)

Dazzler. An exceedingly brilliant large flowering low growing dazzling scarlet shows minor variation from seed. 1/64 oz., $2.00; 1/32 oz., $3.30; 1/16 oz., $5.75; 1/8 oz., $11.00; 1/4 oz., $20.00 — Trade pkt. $0.85 — Oz. ....

Dwarf Elk's Pride. Re-selected. Velvety violet. 1/64 oz., $2.00; 1/32 oz., $3.30; 1/16 oz., $5.75; 1/8 oz., $11.00; 1/4 oz., $20.00 — .85 — ....

Dwarf Pink Glory. Compact habit, pure flame rose-pink. 1/64 oz., $2.00; 1/32 oz., $3.30; 1/16 oz., $5.75; 1/8 oz., $11.00; 1/4 oz., $20.00 — .85 — ....

Popeorn. Large pure white flowers identical in size to Snowstorm. Plant is dwarf and compact, retaining its habit throughout the entire blooming season. Very free flowering. Excellent for pot work or bedding. 1/64 oz., $2.75; 1/32 oz., $5.00; 1/16 oz., $9.50; 1/8 oz., $18.00; 1/4 oz., $33.00 — 1.75 — ....

Snow Storm Improved. Flowers are the purest white and the uniformity of the dwarf compact growth is marvelous. 1/4 oz., $20.00; 1/8 oz., $11.00; 1/16 oz., $5.75; 1/32 oz., $3.30; 1/64 oz., $2.00 — .85 — ....

White Cloud. 12 in. A great favorite on account of its dwarf compact habit. 1/64 oz., $2.00; 1/32 oz., $3.30; 1/16 oz., $5.75; 1/8 oz., $11.00; 1/4 oz., $20.00 — .85 — ....

SINGLE SMALL-FLOWERED DWARF SORTS

(260,000 seeds per oz.)

Admiral. Extra reselected. This is the best dwarf rich violet blue Petunia with waved flowers, of good size, and even growth. 1/64 oz., $1.50; 1/32 oz., $2.75; 1/16 oz., $5.00; 1/8 oz., $9.50; 1/4 oz., $17.00 — Trade pkt. $0.85 — Oz. ....

Blue Ball. Early flowering velvety violet blue. Several shades lighter than Blue Bird. Dwarf and compact growth. One of the best ever offered. 1/8 oz., 80c; 1/4 oz., $1.50 — .40 — $5.00

Celestial Rose Improved. Definitely superior to the regular Celestial Rose, slightly dwarfer in habit and larger flowered. Unquestionably the best available strain of this fine pot plant item. 1/8 oz., $1.10; 1/4 oz., $2.00 — .60 — 6.60

Elk's Star. A starred Petunia of exceptional merit. The blue-purple flowers, of Howard's Star type, are all uniformly marked with pure white star. Plants, 12 to 15 inches, make an even upright growth and the flowers cover the plant. It combines particularly well with Rosy Morn for both height and a pleasing color arrangement. 1/32 oz., $1.45; 1/16 oz., $2.75; 1/8 oz., $5.25; 1/4 oz., $10.00 — .60 — ....

Fire Chief. A brilliant scarlet red, entirely new in this class. Plants dwarf and compact, very free flowering over a long season of bloom. 1/16 oz., $1.75; 1/8 oz., $3.00; 1/4 oz., $5.00 — .50 — ....

Glow. The richest red small flowering Petunia, a dwarf bushy plant which is covered with 2½ inch flowers of dazzling carmine red. 1/16 oz., $1.40; 1/8 oz., $2.20; 1/4 oz., $4.00 — .40 — ....

Heavenly Blue Reselected. A light silvery blue varies about 10% in shade. 1/8 oz., $1.00; 1/4 oz., $1.75 — .40 — 5.50

King Henry (Dwarf Flaming Velvet). Large flowers of a rich velvety blood-red color. Very free flowering. Dwarf compact habit. 1/32 oz., $1.45; 1/16 oz., $2.75; 1/8 oz., $5.25; 1/4 oz., $10.00 — .60 — ....

Lipstick. A new color in the class of Celestial Rose. Easy to grow, plants are covered with medium sized single flowers of rich carmine rose with a suggestion of salmon, which shows resistance to fading. Plants are compact, 12 to 14 in. 1/16 oz., $1.40; 1/8 oz., $2.20; 1/4 oz., $4.00 — .50 — ....

Rose of Heaven Select. A brilliant rose-pink. 1/4 oz., $1.25 — .50 — 3.80

Rosy Morn Select. Pink with white throat. 1/4 oz., $1.25 — .50 — 3.80

Snowball Improved. The outstanding Bedding White in our 1952 Trials. Good size flowers on compact plants; very free flowering with a long season of bloom. 1/8 oz., $1.00; 1/4 oz., $1.75 — .50 — 5.50

Starred Mixture of Dwarf Hybrida Varieties. This formula-blend includes the popular Twinkles, Norma, Elk's Star and Howard's Star Improved, as well as others which we buy especially for it. These bright starred flowers are especially attractive when used in combinations or for border work. 1/4 oz., $1.40 — .40 — 4.25

Vaughan's Special Dwarf Mixture. A formula-blend of perfect color balance. 1/4 oz., $1.50 — .40 — 4.50

For complete list see Spring Catalog

PETUNIA ALL—DOUBLE TYPE

DOUBLE LARGE-FLOWERING

★**All Double Vaughan's Formula Mixture.** A blend made of the various All Double Mixtures now available, to which have been added separate colors in the right proportions. 1/128 oz., $7.50; 1/64 oz., $14.50; 1/32 oz., $28.00; 1/16 oz., $55.50; ½ Trade pkt., $2.25; Trade pkt., $4.00.

DOUBLE PETUNIAS

(2,500 seeds per 1/128 oz.)

We are glad to offer this year a wider selection of seed of these ever-popular florists' plants.

PAN-AMERICAN STRAIN

Trade pkt. — Oz.

★**Allegro Improved.** Fringed deep salmon. The flowers are larger, more fully double and the color brighter in this improved strain.

★**Caprice Improved.** Flowers more double and deeply fringed, color brighter rose in this new improved strain. A very attractive color that will sell on sight.

Minuet. The orchid-lavender flower measuring 3½ to 4 inches across, is well fringed. Shows some variegation. Recommend pinching for more dwarfness and better branching.

Nocturne. A deep midnight-purple of Elk's Pride purple. Flowers somewhat semidouble.

Rhapsody. Deep burgundy wine-purple flowers of good size, fully double, dwarf free branching plants 100% large flowered. A new color in Petunias.

★**Sonata.** Large, double, pure white flowers. Fine for Mother's Day. Recommend pinching plants to induce branching.

Each of the above. 1/16 oz., $58.00; 1/32 oz., $29.50; 1/64 oz., $16.00; 1/128 oz., $8.50; ½ Trade pkt., $2.75 — $4.50 — ....

Glorious Mixture. Contains tall and dwarf types in all of the above colors. This formula mixture is first class in every respect. 1/16 oz., $55.50; 1/32 oz., $28.00; 1/64 oz., $14.50; 1/128 oz., $7.50; ½ Trade pkt., $2.25 — 4.00 — ....

★**Colossal Shades of Rose Improved.** Giant double blooms up to 5 inches or more across on vigorous compact plants. Containing 80% rose and new salmon shades. Make fine 4 to 5 inch pot plants for Easter, Mother's Day and spring combinations. 1/32 oz., $19.00; 1/64 oz., $10.00; 1/128 oz., $5.50; ½ Trade pkt., $1.65 — 2.75 — ....

PETUNIAS—Continued

All Double Dwarf (Victorious) Fringed

(2,000 seeds per 1/128 oz.)

Attraction. The brightest carmine-rose and white combination of the Victorious Series. Dwarf and bushy in habit with flowers well doubled and fringed.

★**Blue Brocade.** Profuse bloomer of true violet blue. The fringed flowers of 3½ to 4 inches across are borne on stocky plants 10 inches in height.

★**Gaiety.** A bicolor in rose or light rose-red with white ground. Except for lighter tones, similar to "Attraction."

★**Illumination Improved.** The brightest of all Victorious Petunias. A bright red overlaid with a scarlet sheen. Our very best as to color, plant habit and size of flower; a must for pot plant growers.

Loveliness. La France or salmon pink; an especially valuable color to the florist, has the uniformity of growth and habit of World Beauty.

★**Pure White Improved** (Snow Ball). Same dwarf uniform habit of rosy-carmine with large well fringed flowers of the purest white. A fine Mother's Day pot plant.

★**Rosy Carmine Improved.** (World Beauty or Pink Perfection). Uniformity of growth and a brighter rose color shall increase the popularity of this variety more than ever. What could be better than a plant of 8 to 10 blooms with this appealing color, fringing and doublencss to attract pot plant sales.

All Double Dwarf Giant Fringed Mixed (Victorious). The flowers are very large, exquisitely ruffled and fringed. Our mixture contains a very large per cent of separate colors, thereby giving you a better balanced color range than has been ever offered.

Each of the above, ½ Trade pkt., **$2.25;** Trade pkt., **$4.00;** 1/128 oz., **$6.50;** 1/64 oz., **$12.00;** 1/32 oz., **$22.00;** 1/16 oz., **$40.00.**

★**All Double Canadian Mixture.** Full double flowers in a blend which includes rose, pink, salmon, white and mauve. 1/32 oz., **$24.00;** 1/64 oz., **$12.60;** 1/128 oz., **$6.65;** ½ Trade pkt., **$2.00;** Trade pkt., **$3.50.**

All Double Orchid (Burpee). Rich light orchid color with deep rosy-purple veins. Intense ruffling and deep fringing add to the beauty of the large blooms. 4 to 4½ inches across. Free flowering, the best of the orchids or lavenders, perfect for pots. 1/128 oz., **$8.50;** 1/64 oz., **$16.00;** ½ Trade pkt., **$2.75;** Trade pkt., **$4.50.**

DOUBLE SMALL-FLOWERING

★**All Double America Improved.** A rich rose-pink slightly deeper in color than the original with flowers of larger size coming more uniformly full-double. Extremely free flowering; excellent for bedding and cutting. 1/128 oz., **$4.50;** 1/64 oz., **$8.00;** 1/32 oz., **$14.50;** 1/16 oz., **$28.00;** ⅛ oz., **$55.50;** ½ Trade pkt., **$1.35;** Trade pkt., **$2.50.**

Schizanthus

(50,000 seeds per oz.)

	Trade pkt.	Oz.
Vaughan's Dwarf Masterpiece. The plants grow dwarf and compact, making them most suitable for pot culture. The color range of the flowers, which are of good size, is the most varied, well balanced from light pink and rose, to a pleasing dark violet, with conspicuous blotches....1/16 oz., **$1.10;** ⅛ oz., **$1.80**	**$0.60**	....
Vaughan's Excelsior Hybrids. A choice strain with very large flowers in an excellent blend of colors. A splendid cut flower item. ¼ oz., **$1.90;** ⅛ oz., **$1.20**	.60	....
Wisetonensis Monarch Strain. Finest strain of large flowered hybrids, rich colors and flowers of perfect form.....¼ oz., **$2.20;** ⅛ oz., **$1.35**	.60	**$6.60**
Dr. Badger's Hybrids. Splendid large flowers with brilliant coloring, compact grower 8 to 10 in. tall.....¼ oz., **$1.20**	.40	3.60
Pansy-flowered. Large pansy-flowered blooms. The rich self-colors in all shades of pink, crimson, mauve and purple, as well as white are extremely bright and attractive.....¼ oz., **$1.90;** ⅛ oz., **$1.10**	.40	....

SALVIA Splendens St. John's Fire

Salvia

(About 7,500 seeds per oz.)

Sow seed in flats and give bottom heat, as this helps germination of seed considerably. **New crop available about November 1st.**

	Trade pkt.	Oz.
SPLENDENS America (Globe of Fire). A favorite with many growers. Plants grow about 18 inches high in uniform dense globe-shaped bushes.....¼ lb., **$15.00;** ¼ oz., **$1.50**	**$0.60**	**$5.00**
Blaze of Fire. Bright scarlet. The earliest of all, dwarf early flowering. ¼ lb., **$21.00;** ¼ oz., **$2.25**	.85	7.00
Brightness. Plants grow as tall as the old Splendens Type. Habit is more compact and the bloom earlier; coming into flower with Bonfire.....¼ lb., **$12.00;** ¼ oz., **$1.25**	.50	4.00
Harbinger. 16 in. Very early, scarlet.....¼ lb., **$18.00;** ¼ oz., **$2.00**	.75	6.00
Clara Bedman (Bonfire). Erect habit—the old standby.....¼ lb., **$15.00;** ¼ oz., **$1.50**	.60	5.00
Vaughan's Masterpiece. The finest dwarf extra early flowering variety. Massive scarlet spikes; even compact habit...¼ oz., **$2.75;** ⅛ oz., **$1.55**	.85	8.50
Rose Flame. A rich coral pink. Growth vigorous, and branching, early flowering; long flower spikes 8 to 12 inches, freely produced.....¼ oz., **$2.00**	.75	6.00
St. John's Fire. Our own re-selected strain coming into flower early, while plants are but a few inches tall, remaining in flower until frost. The bright scarlet spikes stand densely and rigidly upright above the foliage on uniformly compact plant.....¼ lb., **$25.00;** ¼ oz., **$2.75**	.90	8.50

New Saintpaulias

(AFRICAN VIOLET SEED)

Blue Fairy Tale. Extra large flowers in rich blue shades with bright yellow eye. Very free flowering. Strong bushy plants with foliage of a rich dark green will measure 12 to 14 inches across with good culture in 10 to 12 months. Trade pkt., **$1.50.**

Hybrids. Flowers are in varied shades of blue, lilac and pink; the plants dwarf, bushy and compact with leaves of dark green. Trade pkt., **$1.50.**

Stocks

(About 18,500 seeds per oz.)

Our Stocks are produced by the most careful growers and are equal to the best in the market.

Varieties preceded by star (★) are the most popular colors.

A leaflet "Methods of Selecting Double Flowered Stock in the Seedling Stage," by Prof. S. L. Emsweller, will be included in all orders for Column Stocks seed.

TRYSOMIC GIANT IMPERIAL

Produces 85% or more double flowering plants when sown from seed. The planting can be increased to 100% at the four-leaf seedling stage as at that period of growth the young singles are noticeably weaker and easily distinguished from the vigorous double flowering plants. In all other respects the Trysomic Giant Imperial Stock is identical to currently popular double branching strains.

★Bright Rose
Canary Yellow
Chamois buff pink
Fiery Red
★Lilac Lavender
Navy Blue
★White
Choice Mixed

Each of the above: ½ Trade pkt., **$1.00**; Trade pkt., **$1.75**; ⅛ oz., **$2.75**; ¼ oz., **$5.00**; oz., **$18.00.**

IMPROVED GIANT BISMARCK (Early Giant Imperial)

One of the best Stocks, for both inside and outside planting. The plants grow in pyramidal form, about 2½ ft., are strong and robust and are covered with large double flowers. Plant close and take out center shoot as soon as safe to get more and longer side branches which that way produce more flowers.

Antique Copper.
Appleblossom. (Blush-pink).
Buttercup. Deep golden yellow.
★**Chamois.**
Dark Blue.
★**Elk's Pride.** (Royal purple).
Fiery Blood-Red.
Flesh. Pale coral pink.
★**Lavender.**
★**Lilac.**
★**Rose.**
★**Shasta.** Vigorous, glistening white.

	Trade pkt.	Oz.
Each of the above.....⅛ oz., **75c**; ¼ oz., **$1.20**	**$0.40**	**$3.80**
Giant Bismarck Mixed. All colors..... .....⅛ oz., **75c**; ¼ oz., **$1.20**	**.40**	**3.80**

"NON-BRANCHING COLUMN STOCKS"

These produce one enormous spike with large flowers, 2 to 2½ ft. high, and can be planted close together in the bench, which makes them a profitable type. Are in season with Bismarck variety.

★**Pacific Pink** (New). A new color break in Column Stocks. Pure pink on a cream base, entirely different color than any herctofore available. Non-branching spikes of well placed florets, coming full 70% double. Shows up exceptionally well under artificial light. ½ Trade pkt., **70c**; Trade pkt., **$1.10**; ¼ oz., **$2.75**; oz., **$10.00.**

American Beauty. Rich deep carmine rose.
★**Avalanche.** Long massive spike, very double individual florets of pure paper white, of good size and substance. Especially recommended for outdoor growing in California and Arizona.
Blue. Dark lilac blue.
Chamois Pink. A warm rosy buff color.
★**Deep Apricot.** A coppery terra cotta.
Gardenia Improved. Flowers of the purest white. Larger individual floret; plant grows at least 6 in. taller and comes into flower 10 days earlier than the regular strain. Needs disbudding.
★**Lilac Lavender.** Same as Silvery Lilac.
Pink Giant. A rich rose almost identical to Rose Pink No. 14, except for brighter center. Large florets closely set on long stems.
★**Purple Heart.** Long stemmed, bright violet purple.
Rose Pink (No. 14). A rose-pink, not a deep heavy rose. Good market color.
Ruby. Rich crimson red.
★**Silvery Lilac.** Lilac lavender.
★**Supreme No. 22.** Rich silvery rose with extra long stems and fine heavy spike.
White Giant. Long stemmed pure white, without trace of green. Floret of good size, closely set on strong stems.
★**White Improved No. 16.** Semi-tall. Early pure white, with large florets and compact spike.
★**Yellow Wonder.** Best yellow.
Special Florist Mixed. Mixture of the best selling colors.
Each of above, ½ Trade pkt., **70c**; Trade pkt., (about 1200 seeds), **$1.15**; ¼ oz., **$2.75**; oz., **$10.00.**

STOCKS NON-BRANCHING COLUMN WHITE IMPROVED No. 16

	Trade pkt.	Oz.
Shamrock. (38,000 seeds per oz.) Sow early. .....¼ oz., **40c**	**$0.25**	**$1.30**
Smilax Asparagoides. Ornamental climbing foliage plant.....¼ oz., **85c**	**.40**	....
Statice Suworowii. Russian. Also known as "Rat Tail." Flowers bright rose color. Sow inside for winter blooming in a cool house.....¼ oz., **$1.00**	**.30**	**3.00**

Streptocarpus

Wiesmoor Hybrids. The flowers are well fringed and crested, very large, 4 to 5 inches across. Unlike the older strains, the leaves of this new one are smaller, making it more adaptable to potting. The color range is most complete, pink, in all its shades and variations, deepest red, blue shades and white with dark blotches.

The plants flower abundantly and early. January seedlings will bloom by June. By successive sowings from October to March, blooming plants will be available all year round for sale or cutting. Seeds are small and require but very little covering. For soil, use the same as that in which Gloxinias thrive. At its best in the ordinary green house and should be grown rather cooler than Gloxinias. Trade pkt., **$1.75**; 3 trade pkts., **$4.75**; 5 trade pkt., **$8.00.**

(350 seeds per oz.)

Sweet Peas Early-Flowering Spencer

SWEET PEAS ZVOLANEK'S MULTIFLORA

By the use of the star-symbol (★) we have indicated the varieties which, according to our experience, have proved the most satisfactory in the various colors and classes.

Nitragin for inoculating Sweet Pea Seed, Garden Size Packet, **15c.** Sweet Peas should be inoculated with Nitragin before planting.

Any of the following, ½ oz., 35c; 1 oz., 55c; ¼ lb., $1.65; lb., $6.00.

PINK, ROSE AND SALMON

A. C. Zvolanek. Rich rose-pink. Long stemmed. An improved Mrs. Holsclier.
American Beauty. A rich crimson rose.
Apollo. A soft salmon-cerise. Fine spring bloomer long stemmed.
Ball Rose Improved. Extra rich deep rose.
Ball Rose Supreme. Large wavy flowers of bright silvery rose pink.
Boon. Deep salmon-pink.
★Bridesmaid. Deep silvery pink with stems unusually long.
★Daphne. A soft salmon-pink.
Giant Rose Pink. Fragrant. Rose pink.
Josie. Brilliant rose-pink, vigorous, large flowers; long stems.
★Laddie Improved. Light rose-pink. Fragrant. Long stemmed.
★Sequoia. A rich golden salmon-rose.
★Shirley Temple. Soft rose-pink, long stem, fluted flower.

BLUE, LAVENDER AND PURPLE

Amethyst. An early-flowering "Royal Purple." Fragrant.
Ball Blue Supreme. Much larger flowered than Mrs. Hoover, a long stemmed heavy producer.
Blue Bird. Violet blue. Fragrant.
Fragrance. Large frilled lavender flowers, for spring blooming.
★Harmony. Popular lavender, fragrant.
★Mrs. Herbert Hoover. Bright blue. Fragrant.
Tahoe. Midblue. Spring blooming.
★Triumph. Deep lilac mauve.
★Twilight. A medium clear lavender.

ORANGE

Ball Orange Improved. Clear deep glowing orange.
★Treasure Island. A sparkling golden orange.
Valencia. Sunproof orange. Long stems for spring blooming.

SCARLET AND MAROON

★Bacchus. Mammoth flowered duplex. Rich red maroon.
Fiesta. Brilliant orange cerise, definitely sunproof.
Grenadier. Dazzling scarlet.
★Red Bird. Bright crimson-red.
★Redwood. Dark velvety crimson.
Sparks. Brilliant poppy scarlet.
Top Sergeant. Deep blood-red crimson.

WHITE AND CREAM

Ball White. Large flowered, long stemmed, pure white.
★Cascade. Very large flowered white, white-seeded.
Gardenia. Fragrant velvety white flowers, ruffled and duplexed.
★Hope. A mammoth-flowered black-seeded pure white.
Snow Queen. Pure white, black-seeded. Sow to follow "mums."
★White Champion. Best early-flowering white-seeded white.
★White Harmony. A standard black-seeded white.

Vaughan's Special Formula Mixture, Early Flowering Spencers from named sorts. ½ oz., **30c**; oz., **55c**; ¼ lb., **$1.50**; lb., **$5.50.**

★ZVOLANEK'S MULTIFLORA SWEET PEAS

A new development in Sweet Peas, coming into flower between the Cuthbertson and Early or Winter Flowering Group. Many 5's and 6's on strong stems, 14 to 16 in. long, all of good size. Peculiar to this group is the fact all florets on a stem are in bloom at one time. Very free flowering.

Beauty Rose. Deep American Beauty color, long stems. Very brilliant.
Deep Rose. Excellent bright deep rose with long thin stems with six flowers on each stem.
Lavender. Orchid-lavender, exceedingly long stems. Many 5's and 6's on stout pencil stems.
Orange Cerise. Extra large flowers, very brilliant.
Orchid. A new color in Sweet Peas, true orchid-lavender with long stems. Usually 6 or more flowers on a stem.
Rose. Large medium rose flowers.
Rose Pink. Giant rose pink flowers on long stout stems. Many 5's and 6's, very brilliant.
Whirlwind. Extra large, light rose flowers.
White. Pure white, white seeded.
Salmon Pink. Rosepink with a salmon tint.
Mixed. A well-balanced blend containing the varieties listed as well as others not yet released.
Each of the above, ½ oz., $1.50; oz., $2.50; ¼ lb., $8.00; lb., $24.00.

CUTHBERTSON SPRING FLOWERING SWEET PEAS

An important addition to the Sweet Pea family. Chief characteristics of this strain are great vigor, profusion of large fragrant blossoms, extra long stems, clear colors and ability to produce out of doors in those sections where Sweet Peas have been unsuccessful due to hot weather conditions.

Under glass they are sown from the middle to end of October to February for flowering well into late Spring.

Ann. Bright carmine rose; large bold frilly blossoms, long stout stems. A new color.
Billy. Light carmine.
★Carol. Clear pink, white ground.
★Danny. Brilliant navy blue.
★David. Bright rose crimson.
Doris. A shade of cherryrose.
Evelyn. Salmon cream pink.
Frances. Salmon on white ground.
★Frank G. Rosy lavender.
★Hazel. Light blue.
★Janet. Black seeded white.
Jessie. Rich mauve shade.
★Jimmy. Deep scarlet of good substance and size.
Katie. Rose cream pink.
Kenneth. Rich ox blood crimson.
★Lois. Rose pink, white ground.
Marion. Cream black seeded.
Ronnie. A deep orange that must be shaded to bring out the true rich color.
Ruth. Rich deep rose-pink on white ground.
★Tommy. Clear medium blue.
Waneta. Bright deep salmon.
William. A picotee rose pink on white background.

Each of above, ½ oz., 30c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

★Mixed. All the above and others . . . . . ½ oz., **30c**; oz., **50c**; ¼ lb., **$1.50**; lb. **$5.00.**

OUR RECOMMENDATIONS ARE INDICATED BY A STAR (★)

VERBENA SPARKLE

VERBENA

(About 10,000 seeds per oz.)

	Trade pkt.	Oz.
Gigantea Alba. Very large, pure white.		
Annapolis Blue. Spreading habit, shades of light to deep blue.		
Beauty of Oxford Hybrids. The color shades from clear rose-pink to rose-red, making this the brightest rose Verbena ever produced from seed.		
Crimson Glow. Pure glowing crimson, without eye.		
Lavender Glory. True lavender. Large flower umbels. Fragrant. About 80% true.		
Lucifer. Scarlet.		
Royale. Royal blue with creamy yellow eye.		
Salmon King. The largest flowered clear deep salmon; plant tight and compact which eliminates the open center.		
Spectrum Red. Intense pure bright red without eye.		
Violacea Stellata. Violet, white eye.		
Vivid. Brilliant sunproof scarlet, brighter and more intense than Spectrum Red. Large uniform trusses, large florets. Compact plant, 8 inches tall.		
Each of above.....¼ oz., $1.00	$0.40	$3.00
Bush Type. Plants are of uniform bushy habit about 8 to 10 in. high and 12 to 15 in. across, with flower heads practically touching each other. Most suitable for borders.		
Firelight. The most vivid Red Verbena. Large closely spaced blooms provide a carpet of fiery brilliance.....¼ oz., $1.00	.40	3.00
Roselight. A bright rose-pink with white eye .....¼ oz., $1.00	.40	3.00
Salmon Queen. A pleasing shade of bright salmon pink with a small white eye.....¼ oz., $1.00	.40	3.00
Snow White. Large flowered pure white..... .....¼ oz., $1.00	.40	3.00
Starlight. A bright mid-blue with creamy-white eye.....¼ oz., $1.00	.40	3.00
Mixed. This well-balanced mixture includes the above as well as others selected from the introducer's breeding grounds..... .....¼ lb., $9.00; ¼ oz., $1.00	.40	3.00

Vaughan's Best Mixed. This is unquestionably the best strain of Verbena seed in existence. It is composed of the best strains, all grown separately, and mixed in the right proportion. Trade pkt., 40c; ¼ oz., $1.00; oz., $3.00; ¼ lb., $9.00.

NEW DWARF VERBENAS

	Trade pkt	Oz.
Sparkle. Bright scarlet red is greatly intensified by a large gleaming white eye. Large blooms so tightly arranged the effect is a solid mass of color. The habit is dwarf and compact and extremely free flowering.....¼ oz., $1.35	$0.60	$4.50

NEW DWARF VERBENA—Continued

	Trade pkt.	Oz.
Crystal. The snow-white companion to Verbena Sparkle, with the same fine dwarf compact habit and large florets produced in clusters of 12 to 15 per plant. Free flowering, the plant retains its fine compact habit throughout the long blooming season.....¼ oz., $1.35	$0.60	$4.50
Master Blend. The finest mixture for spring bedding plants and combination work. Very compact and dwarf, coming into flower when plants are very small and blooming through the entire season. An excellent range of bright colors with a high percentage of eyed florets. ⅛ oz., $1.25; ¼ oz., $2.00; ½ oz., $3.50; ¼ lb., $18.00.....	.75	6.00

THUNBERGIA. Mixed. (1,100 seeds per oz.) Fine climber or trailer for window boxes and hanging baskets. Flowers in shades yellow, buff and orange, black centered.....¼ oz., 50c	.30	1.60
TORENIA Fournieri. (375,000 seeds per oz.) Makes a fine pot plant for Mother's Day sales and very useful for combination baskets. Flowers blue with dark blotches on lip. 12 inch. Grown in southern states instead of pansies. ¼ oz., $2.25; ⅛ oz., $1.25	.60	....
Fournieri Compacta. Dwarf form of above. 8 in. .....⅛ oz., $1.25; ¼ oz., $2.25	.60	....
Fournieri White.....⅛ oz., $1.25; ¼ oz., $2.25	.60	....
Fournieri Compacta White..... .....⅛ oz., $1.25; ¼ oz., $2.25	.60	....

Vinca Rosea

(Above 20,500 seeds per oz.)

These are slow growers and must be started early. They are splendid as bedding plants or for combinations. They bloom all summer until frost and do well in either sun or partial shade. These should be in every florist's order for bedding plant sales.

	Trade pkt.	Oz.
Rosea. Pink, 1 ft.....¼ oz., 65c	$0.30	$2.00
Fl. Alba Oculata. White with pink eye..¼ oz., 65c	.30	2.00
Alba Pura. Pure white.....¼ oz., 65c	.30	2.00
Delicata. Soft pink.....¼ oz., 65c	.30	2.00
Mixed.....¼ oz., 65c	.30	2.00

Viola

In most cases the true Violas are a better bedding subject than many Pansies as they seem to enjoy the heat of midsummer and bloom continuously. **(About 25,000 seeds per oz.)**

	Trade pkt	Oz.
Cornuta Admiration. Very large circular dark blue flowers. 8 in.....⅛ oz., $1.10; ¼ oz., $2.00	$0.60	$6.00
Arkwright Ruby. Ruby crimson shading to terra-cotta.....⅛ oz., $1.65; ¼ oz., $2.90	.60	9.00
Blue Perfection. Light blue, large flowered. 8 in. .....⅛ oz., $1.10; ¼ oz., $2.00	.60	6.00
Chantreyland. Masses of beautiful flowers in rich apricot shade, tinted orange.....¼ oz., $2.50	.60	7.50
Chinese Blue. A round-faced type of Viola such as Jersey Gem. Pure sky-blue..... .....⅛ oz., $1.65; ¼ oz., $2.90	.60	9.00
Georgia Peach. Bright new shades of delicately peach colored, exceptionally large blooms, slightly ruffled on the edges. The plants are uniformly compact and well formed..... .....⅛ oz., $1.65; ¼ oz., $2.90	.60	9.00
Jersey Gem. Compact habit, deep violet-blue. 8 in. Free flowering.....⅛ oz., $2.20; ¼ oz., $4.00	.60	....
Puck. Yellow and Purple.....¼ oz., $1.50	.40	5.00
White Perfection. Pure white. 8 in...¼ oz., $1.50	.40	5.00
Vaughan's Special Mixture. The bright shades of self colors of red, yellow, blue and apricot, combined with many shades which are blotched, make these Violas a supreme mixture..... .....⅛ oz., $1.65; ¼ oz., $2.90	.60	9.00
Large Flowering Scotch. This strain will have large flowers. The color range is from white through all intermediate shades to purple all with two tone effect without blotches..... .....⅛ oz., $1.95; ¼ oz., $3.30	.60	11.00

Hardy German Iris

"S" refers to the three standard or upright curling petals.
"F" refers to the three falls or drooping petals.

Deluxe Offer Giant Flowering Iris

25 Irises (value $10.00) for $8.00

5 each of Blue Rhythm, Garden Flame, Lady Mohr, Ola Kala, and Three Oaks. 25 Irises (value $10.00) for $8.00.

All prices are F.O.B. Western Springs, Ill., packing charges to be added to cost. One Iris of one kind sold at a slightly higher price than the 3 rate.

	3	10	25
AMANDINE, 36 in. Large flaring, delicate cream self, with a tinge of lemon. Each, **$1.25**	$3.25	$11.00	..
AZURE SKIES. 36 in. Beautifully ruffled, pale azure blue self with domed standards and flaring falls	1.00	3.00	$6.25
BERKELEY GOLD. 38 in. A large deep clear yellow self of fine form, heavy substance and smooth texture	1.00	3.00	6.25
BLUE RHYTHM. 40 in. Extra large flowers of cornflower blue with a silvery sheen on beautifully branched stalks. Head of its class in mid-blues. Dykes Medal 1950	1.50	4.00	8.75
BLUE SHIMMER. 36 in. Extremely large and full white plicata peppered with clear blue. Very different	1.30	3.75	7.50
BRYCE CANYON. 38 in. An unusual, self colored blend of warm henna copper. Does well everywhere	1.65	4.50	....
BUECHLY GIANT. 40 in. Clear lavender-blue bicolor of perfect form and sensational size	.85	2.50	5.00
CHANTILLY. 36 in. Delightful orchid pink. Edges of flower so heavily ruffled and frilled they appear edged with lace. Each, **$1.00**	2.50	6.00	....
CHERIE. 34 in. Most famous of the "flamingo pinks". Large ruffled flowers of excellent form and substance with deep tangerine beard. Dykes Medal 1951. Ea. **$3.50**	....	....	....
CHINA MAID. 48 in. An intriguing blend of pink, golden copper and soft lilac. Large flowers of fine form	1.20	3.50	7.00
CHIVALRY. 36 in. An outstanding ruffled, medium blue of large size; flaring falls. Dykes Medal 1949. Ea. **$1.00**	2.65	8.50	....
CHRISTABEL. 38 in. Very showy, large flowers of gleaming copper-red	.85	2.50	5.50
CITY OF LINCOLN. 40 in. Magnificent bicolor. Standards of bright yellow, falls rich, velvety red; golden edged	.85	2.50	
CLOTH OF GOLD. 38 in. Clear, sparkling, deep, golden yellow self; fragrant	1.20	3.50	7.00
COPPER LUSTRE. 36 in. Huge flowers of a blend of glowing copper and gold with iridescent sheen	.85	2.50	....
DAYBREAK. 40 in. Huge golden pink with slight undertones of copper	1.30	3.75	....
ELMOHR. 36 in. A super Iris that has magnificent, richly colored, rounded blooms of heavy texture. Their color is brilliant reddish mulberry with a pinkish glow	1.30	3.75	7.50
ELSA SASS. 38 in. Exquisite ruffled flowers of a cool shade of lemon yellow. A refreshing, beautiful Iris	.85	2.50	....
FIRECRACKER. 33 in. Brilliant, glowing, burgundy red plicata, with yellow trim. Each **$1.00**	2.50	6.00	....
GARDEN FLAME. 34 in. A large, richly colored Iris of deep rose-mahogany. Late	1.65	4.50	10.00
GARDEN MAGIC. 44 in. A late very dark velvety red—in great demand	1.20	3.50	7.00
GOLDEN MAJESTY. 42 in. A truly superb deep yellow Iris. Large blooms of thick substance do not fade	.90	2.75	5.50
GRAND CANYON. 40 in. Very large, ruffled flowers of an odd blend of plum and copper and gold	1.20	3.50	7.00
GREAT LAKES. 48 in. An exquisite blue. Ideally formed blooms with flaring falls and crisp petal texture	1.20	3.50	7.00
HARRIET THOREAU. 38 in. Large flowers of clear orchid pink	1.20	3.50	....
HELEN McGREGOR. 36 in. Beautifully ruffled, clear light blue with no trace of lavender in it. Each **$1.25**	3.00	9.00	....
INDIAN HILLS. 37 in. A stunning Iris of rich wine purple, with a silky sheen that gives it exceptional brilliance. Vigorous grower; very fragrant	.90	2.75	5.50
LADY MOHR. 36 in. S. Huge, oyster-white, slightly fluted; F. frosted chartreuse with prominent veining and a dark patch by the beard	1.50	3.75	7.50
MASTER CHARLES. 38 in. Gorgeous, rich glowing mulberry purple. Has a wonderful sheen	1.20	3.50	7.00
MING YELLOW. 50 in. The perfect yellow Iris. Vigorous in growth, strong foliage and stout, well branched stems.	1.20	3.50	....

Special Offer New Giant Flowering Irises

5 each of Azure skies, Blue Shimmer, Berkeley Gold, China Maid, Cloth of Gold, Elmohr, Garden Magic, Great Lakes, Mulberry Rose and Sable (value $17.25) for $13.50.

There is no comparison between these new beauties and the old obsolete varieties. Plant out a good collection and sell the flowers on Decoration Day and the rhizomes in July, Aug. and Sept. You will be surprised at the demand you will have for them.

	3	10	25
MINNIE COLQUITT. 36 in. Massive, ruffled white, with wide stitched border of wine-purple	$1.50	$4.00	....
MISSOURI. 36 in. Clear vivid blue of sensational size	.85	2.50	....
MULBERRY ROSE. 40 in. Huge flowers of radiant, lovely mulberry rose with a bronze beard	1.20	3.50	$7.00
NEW SNOW. 40 in. The large ruffled flowers are as white as new fallen snow; yellow beard. Each **$1.25**	3.25	10.00	....
NIGHTFALL. 36 in. Rich, blackish, pansy-purple color, with standards several shades lighter than falls	.90	2.75	5.50
OLA-KALA. 36 in. Brilliant ruffled deep orange-yellow. Dykes Medal winner for 1948	1.30	3.75	7.00
ORMOHR. 40 in. Extra-large blooms of soft gray lavender veined violet with rosy glow. Hardy. Easy to grow	.90	2.75	....
PINK CAMEO. 36 in. An exquisite, pure cameo pink, with tangerine-orange beard. Each **$1.00**	2.65	8.50	....
PRAIRIE SUNSET. 37 in. A gorgeous blend of peach, apricot, rose, copper and gold, like a prairie sunset	1.50	4.50	8.75
RADIANT. 33 in. "S" brilliant burnished orange; "F" rich coppery red. Attracts immediate attention	.85	2.50	5.00
RANGER. 36 in. Very large, brilliant, almost true crimson-red self. Late. Each **$1.00**	2.65	8.50	....
SABLE. 40 in. Almost perfect black with a silky sheen. Excellent form, hardiness, and intense color make it "tops" in its color class	1.20	3.50	7.00
SNOW FLURRY. 40 in. Enormous, beautifully ruffled flowers of pure icy white, very faintly flushed blue	1.50	4.50	8.75
SOLID MAHOGANY. 38 in. Large deep mahogany red	1.50	4.50	8.75
SPUN GOLD. 38 in. A magnificent Iris of gleaming, deep pure, velvety yellow. Dykes Medal 1944	1.30	3.75	....
THE RED DOUGLAS. 40 in. Sensational, new vibrant red-purple of colossal size, gorgeously rich in color. The experts agree it's one of finest of all Irises	1.35	4.00	8.75
THREE OAKS. 38 in. Huge rose-pink blend overlaid rosy copper; blue blaze on the falls	1.50	4.00	8.75
WABASH. 39 in. Dykes Medal 1940. "S" snowy white; "F" deep hyacinth-violet. The experts agree it is one of the finest Irises ever introduced	1.00	3.00	6.25

DWARF IRIS

These varieties bloom two weeks in advance of the tall bearded Iris.

	3	10	25
CYANEA. 6 in. Very dwarf, rich crimson purple; fragrant	$0.90	$2.00	$4.25
FAIRY. 6 in. Pale blue	.90	2.00	4.25
KEEPSAKE. 8 in. Bright golden yellow on slender stalks	1.00	2.50	5.00
ROSE MIST. 8 in. Dusty rose-pink	1.00	2.75	5.50

JAPANESE IRIS (Kaempferi)

GOLD BOUND. White with gold banded center. Double.	1.35	4.00	8.75
KAGARI BI. Deep rose-pink; silver veins. Single	1.35	4.00	8.75
MAHOGANY. Large double flowers of mahogany-red; late	1.35	4.00	8.75
PURPLE AND GOLD. Rich violet-purple. Gold center. Double. Midseason	1.35	4.00	8.75

Polyantha Forcing Roses

Price of the following: XXX grade per 10, $7.50; per 100, $68.00 per 250, $165.00; per 500, $320.00; per 1000, $620.00; XX grade, per 10, $6.50; per 100, $58.00; per 250, $140.00; per 500, $270.00; per 1000, $520.00

DICK KOSTER. Flowers like Margo Koster, but rose-red in color. XXX grade only.

GLORIA MUNDI. Double, lasting, glowing orange-scarlet in large clusters.

MARGO KOSTER. Dwarf bushy plants with clusters of unusual globe-shaped flowers of vivid orange flushed coral-pink.

MOTHER'S DAY. New brilliant red Margo Koster. XXX grade only.

ORANGE TRIUMPH. Produces huge clusters of magnificent salmon red blooms. XXX grade only.

TRIOMPHE ORLEANAIS. Brilliant cherry-red, lasting in color; blooms profusely in trusses; vigorous and erect with bright glossy green foliage. Considered the finest of red Polyanthas.

Ask for "Complete List of Roses," including the new patented varieties which will be ready in October.

Please Tell Us How To Ship. We Express Unless Otherwise Instructed.
All Prices are F.O.B. Our Nurseries, Western Springs, Ill.

Vaughan's Peonies

5 of a Kind at the 10 Rate—25 of a Kind at the 100 Rate

Prices are F. O. B. Western Springs, Ill., packing charges to be added at cost.

WE HAVE an exceptionally large stock of our own growing. **Strictly true to name,** all in strong divisions, with from 3 to 5 eyes each.

The figures preceding the varieties are the rating given to them by the American Peony Society.

Peonies in established plantings need to be fed each Spring. A top-dressing of a balanced plant food well worked in will do wonders, but it should be applied early

WHITE AND LIGHT SORTS

		Each	10	100
8.8	**Alsace Lorraine.** Creamy white, center tinted Havana brown. Very beautiful form; late midseason	$0.60	$5.00	$45.00
8.7	**Avalanche.** A magnificent flower that opens like a rose. Pure snow-white with a few pencilings of carmine on the edge of the center petals. Delightfully fragrant; late midseason. A very good cut flower and cold storage variety	.60	5.50	.....
9.0	**Baroness Schroeder.** Immense flowers of great substance with high chalice-shaped center. Opens a delicate flesh-white, sometimes a soft baby-pink, changing to creamy white. One of our best cut flower varieties and an excellent keeper in storage	.75	6.00	50.00
8.1	**Duchess de Nemours.** Superb, cup-shaped, sulphur-white flowers with a greenish reflex that lights up the entire flower. Early, free bloomer; fragrant. Good commercial variety	.60	5.00	40.00
9.3	**Festiva Maxima.** Popular large white, dotted carmine. Often 7 to 8 inches in diameter. Early	.60	5.00	45.00
9.1	**Frances Willard.** Exquisite blush-white, of good substance and a fine cut flower variety	.65	6.00	50.00
9.5	**Kelway's Glorious.** Fragrant glistening white petals slightly crinkled and curved inward. Late midseason	1.75	....	.....
9.4	**LeCygne.** A magnificent milk white flower with curving petals. Globular, of great size and free blooming. Early midseason	1.75	15.00	.....
9.4	**Mme. Jules Dessert.** White with delicate tints of flesh and straw. Strong growing, free flowering and a great prize winner; midseason	.75	6.50	.....
7.9	**Mme. de Verneville.** Fragrant flowers, very full double, pure white, with center delicately tinted blush. Early	.60	4.50	35.00
9.5	**Mrs. J. V. Edlund.** One of the finest of all Peonies. Large, pure white, perfect form flowers. Fragrant. A top prize winner	2.50	.....	.....
		2.50	.....	.....
9.3	**Nick Shaylor.** Beautiful globular blooms of perfect form. Color blush pink, flushed salmon	2.75	.....	.....
8.6	**Primevere.** Sulphur-yellow. Bomb type; very fragrant; midseason	1.25	10.00	.....
9.2	**Solange.** Compact large thick petals which closely overlap. Color a deep cream tinged amber and salmon pink. Late	.75	6.50	.....
9.5	**Tourangelle.** Pearly-white overlaid with delicate shades of salmon. Late	.60	5.00	.....

LIGHT AND DARK PINK AND ROSE

		Each	10	100
7.6	**Edulis Superba.** Usually blooms for Decoration Day. The flowers are a beautiful deep, vivid pink, with a silvery reflex, and are borne profusely on tall, strong stems. One of the best of all Peonies for cut flowers in its color and season; very fragrant	$0.60	$5.00	$40.00
8.9	**Georgiana Shaylor.** Large, flat, pale rose pink with a few flecks of crimson. Midseason	.60	5.00	.....
9.1	**Hansina Brand.** Giant flowers of deep flesh-pink with a salmon reflex. Wonderful show flower	2.00	17.50	.....
9.1	**Martha Bulloch.** Immense cupped shape flowers of bright old-rose pink that are often 9 to 12 inches in diameter, on tall, stout stems. Very beautiful; fragrant; late. Good cut-flower variety	1.00	8.00	65.00
9.2	**Mons. Jules Elie.** By many considered the most beautiful of all Peonies. Enormous full flowers, resembling a Chrysanthemum; color a glistening satiny pink, overlaid with a sheen of silver. Very fragrant; early. Good cold storage variety	.75	6.00	50.00
9.3	**Mrs. F. D. Roosevelt.** Very beautiful new pink that rivals Tourangelle for being called "The World's Most Beautiful Peony"	2.75	25.00	.....
9.1	**Myrtle Gentry.** Immense flowers of wonderful substance. Light pink tinted flesh and salmon; fragrant. Late midseason. Often called "the perfect peony" as it has no faults and is all you could wish for in a flower	1.35	11.00	.....
8.7	**Reine Hortense (President Taft).** One of the finest Peonies. A vigorous, strong grower, a profuse bloomer and an excellent cut-flower variety. The flowers are extremely large and in color are a uniform light pink, center flecked crimson. Midseason. This variety and Sarah Bernhardt are two pink peonies of highest quality for all purposes	.60	5.00	40.00

MONS. JULES ELIE — JAPANESE PEONY

LIGHT AND DARK PINK AND ROSE—Continued

		Each	10	100
9.0	**Sarah Bernhardt.** One of the best pink peonies in the world. Tall, vigorous grower and prolific bloomer. The color is a dark rose-pink, edged lighter pink; center flecked crimson. Fine cut flower and storage variety; late midseason	$0.75	$6.00	$50.00
9.1	**Souv. de Louis Bigot.** Very large flowers of bright Bengal-rose changing to salmon-pink. There is a fiery brilliancy glowing from the heart of the flowers that is wonderfully attractive	.75	6.50	.....
9.5	**Therese.** Wonderful peony of perfect habits. Immense blooms of translucent old-rose pink. Early Midseason	1.25	10.00	.....
9.3	**Walter Faxon.** Bright delicate rose pink flower. Free blooming; lasts well cut, Midseason	1.00	7.50	.....

RED AND CRIMSON

8.7	**Auguste Dessert.** Velvety crimson-carmine with silvery reflex	.60	5.50	.....
8.6	**Dixie.** A gorgeous dark red; withstands hot weather very well. Good cut-flower variety. Late midseason	1.75	.....	.....
8.4	**Felix Crousse.** Large globular blooms of rich, even brilliant, dazzling ruby-red; late midseason. Good cut flower and storage variety	.60	5.00	45.00
8.2	**Grover Cleveland.** Large compact flowers of rich bright crimson on stiff stems. It has excellent foliage and is one of our most desirable reds. Late midseason	.60	5.00	45.00
8.8	**Karl Rosefield.** Very large flower, globular, semi-rose type of rich velvety-crimson. Extremely vigorous grower; tall, early	.65	5.00	45.00
9.0	**Longfellow.** Bright crimson. Semi-rose type; tall; late midseason	1.00	9.00	.....
8.8	**Mons. Martin Cahuzac.** Dark purple-garnet with black reflex	1.35	12.50	.....
8.6	**Officinalis Rubra Plena.** Old-fashioned early red usually in bloom by Decoration Day	.90	7.50	.....
9.2	**Philippe Rivoire.** Perfectly formed flowers of very dark crimson; velvety sheen; fragrant; late	1.75	15.00	.....
8.8	**Richard Carvel.** Large globular flowers of uniform bright crimson. Tall annual and profuse bloomer. Delicate fragrance. Excellent for cut-flowers; usually blooms for Decoration Day	1.00	9.00	80.00

UN-NAMED PEONIES—Divided Roots of from 3 to 5 Eyes

	Each	10	100
Double Pink	$0.50	$3.50	$30.00
Double Red	.60	4.00	35.00
Double White	.50	3.50	30.00

JAPANESE FLOWERED PEONIES

9.2	**Ama-No-Sode.** Bright rose, shading lighter toward the edge of the petals; considered the best pink	2.00	.....	.....
8.2	**Gold Mine.** Cup-shaped flowers of dark rose-pink with deep golden center. A strong grower and profuse bloomer. Midseason	.60	5.00	40.00
8.6	**Mikado.** Guards velvety crimson, forming a cup enclosing crimson petaloids, edged and tipped gold.	.80	6.50	....
9.0	**Toro-No-Maki.** Very large lilac-white with amber yellow center. Spectacular and very beautiful	1.75	15.00	.....

TREE PEONIES—5 Inch Pot Plants

Flora. Pure transparent white; immense flower of Japanese type. A great favorite	$4 50	.....	.....
Reine Elizabeth. Very large, bright salmon-pink	3.50	.....	.....
Souv. De Dueher. Large, globular blooms of bright reddish violet with silvery reflex	3.50	.....	.....
Souv. De Maxime Cornu. Enormous flowers with wrinkled petals of deep yellow, heavily shaded orange	7.50	.....	.....

Ornamental and Flowering Shrubs

Shipping Directions: All stock is sold F.O.B. Western Springs. Packing charges to be added on all orders for shrubs, dormant roses, fruits, trees, evergreens, and vines, at cost. Always give full and explicit shipping directions, as our responsibility ends on delivery to the express or freight office in good condition. **All trees, shrubs and plants shipped subject to customer assuming risk regarding their own State Nursery Inspection Regulations. Certificate furnished with each shipment.**

Where personal selection of stock is made at our Nursery we charge according to its value.

Warning—Prices on all nursery stock subject to change without notice. 5 plants of one kind supplied at 10 rate; 30 plants of one kind supplied at 100 rate.

	Each	10	100
ACANTHOPANAX Pentaphyllum. 3 to 4 ft.	$ .85	$7.50	....
ARONIA Brilliantissima (Brilliant Chokeberry).			
2 to 3 ft.	.85	7.50	....
BERBERIS.			
Thunbergi (Green-leoved Borberry).			
18 to 24 in.	.60	5.00	$45.00
Thunbergi Atropurpureo (Redleof Barberry).			
18 to 24 in.	.70	6.50	60.00
CALYCANTHUS Floridus (Sweet Shrub).			
18 to 24 in.	1.00	9.00	....
CORNUS Albo Siberica (Redtwig Dogwood).			
3 to 4 ft.	.80	7.00	....
4 to 5 ft.	.95	8.00	75.00
5 to 6 ft.	1.10	10.00	70.00
COTONEASTER Acutifolia (Peking Cotoneoster).			
2 to 3 ft.	.85	6.50	....
3 to 4 ft.	1.00	9.00	....
CYDONIA Joponico (Flowering Quince).			
18 to 24 in.	.75	5.50	....
24 to 30 in.	.85	7.50	....
EUONYMUS Alatus Compacta (Dwarf Burningbush).			
2 to 2½ ft.	2.75	....	....
2½ to 3 ft.	3.75	....	....
Europaeus (European Spindletree). 3 to 4 ft.	.75	7.00	....
4 to 5 ft.	1.10	10.00	....
5 to 6 ft.	1.40	12.50	....
Radicons Colorota (Purpleleaf Wintercreeper).			
2½ in. pots	.45	3.50	25.00
Radicons Vegetus (Bigleaf Wintercreeper).			
Strong pot grown plants 10 to 15 in.	.85	7.50	65.00
FORSYTHIA Intermedio Spectabilis (Showy Border Goldenbell). 2 to 3 ft.	.75	6.50	60.00
3 to 4 ft.	1.00	9.00	75.00
Spring Glory. 3 to 4 ft.	1.00	9.00	....
4 to 5 ft.	1.25	11.50	....
5 to 6 ft.	1.50	13.50	....
HYDRANGEA Arborescens Grandiflora (Snowball H.)			
18 to 24 in.	.75	6.50	....
Poniculoto Grondifloro (P. G. Hydrangea).			
18 to 24 in.	.75	6.50	....
KOLKWITZIA Amabilis (Beoutybush).			
3 to 4 ft.	1.00	9.00	....
LIGUSTRUM Amurense (Amur Privet, North).			
18 to 24 in.	....	3.00	27.50
2 to 3 ft., heavy	....	3.50	32.50
3 to 4 ft., heavy	....	4.50	40.00
4 to 5 ft.	....	6.00	50.00
Ibota Regelionum (Regels Privet).			
2 to 3 ft.	1.00	9.00	....
3 to 4 ft.	1.25	11.00	100.00
LONICERA—BUSH HONEYSUCKLE			
Korolkowi Zabeli (True Red Honeysuckle).			
3 to 4 ft.	.80	7.00	65.00
4 to 5 ft.	.90	8.50	75.00
5 to 6 ft.	1.00	9.00	....
Ruprechtiano (Manchurian H.). 3 to 4 ft.	.70	6.50	....
4 to 5 ft.	.85	7.50	70.00
Totarico Albo. 3 to 4 ft.	.80	7.00	....
4 to 5 ft.	.90	8.50	....
Totarico Rubra. 3 to 4 ft.	.80	7.00	65.00
4 to 5 ft.	.90	8.50	75.00
5 to 6 ft.	1.00	9.00	....
PHILADELPHUS (Common Mock Oronge).			
3 to 4 ft.	.75	6.50	60.00
4 to 5 ft.	.85	7.50	70.00
Lemoinei. 18 to 24 in.	.75	6.00	....
Minnesoto Snowflake. (Plant Pat. #538). Fragrant double blooms of glistening white. 2 to 3 ft.	1.00	9.00	....
Virginalis (Semi-double Mock Orange).			
2 to 3 ft.	1.00	7.00	65.00
3 to 4 ft.	1.10	8.00	75.00
4 to 5 ft.	1.25	11.00	100.00
5 to 6 ft.	1.75	16.50	....
PHYSOCARPUS Opulifolius (Common Ninebork).			
3 to 4 ft.	.85	7.50	....
4 to 5 ft.	1.00	8.50	....
5 to 6 ft.	1.25	11.00	....
Opulifolius Aureus (Goldleaf Ninebark).			
3 to 4 ft.	.85	7.50	....
4 to 5 ft.	1.00	8.50	....
Opulifolius Nano (Dworf Ninebork).			
2 to 3 ft.	.70	6.50	60.00
PRUNUS Besseyi (Hansen's Bush Cherry).			
2 to 3 ft.	.60	5.00	....
RHODOTYPOS Kerrioides (Jetbead).	....	....	....
2 to 3 ft.	.90	8.50	....
ROSA Multiflora Japonica (Fence Rose). Seedlings.			
¼ in. at crown Per 500 $30.00; Per 1000 $55.00	....	....	8.00

	Each	10	100
SPIRAEA Arguta Multifloro (Garland S.).			
2 to 3 ft.	$1.00	$8.50	....
Bumalda Froebeli (Fraebel Everblooming S.)			
18 to 24 in.	.60	5.00	$40.00
24 to 30 in.	.70	6.00	50.00
Van Houttei (Bridal Wreath). 2 to 3 ft.	.70	6.00	....
3 to 4 ft.	.80	7.00	60.00
SYMPHORICARPOS Rocemosus (Snowberry).			
3 to 4 ft.	.70	5.50	50.00
Chenoulti (Coralberry). New, very small leaves; graceful arching branches; pink flowers followed by pinkish fruit. 3 to 4 ft.	.85	7.50	....
SYRINGA.			
Persico (Persian Purple Lilac). 2 to 3 ft.	.75	6.50	60.00
3 to 4 ft.	.90	8.50	75.00
Vulgaris Purpureo (Common Purple Liloc).			
2 to 3 ft.	.75	6.50	60.00
3 to 4 ft.	.80	7.50	....
VIBURNUM.			
Dentatum (Arrowwood). 3 to 4 ft.	.90	8.00	....
4 to 5 ft.	1.00	9.00	....
5 to 6 ft.	1.15	10.00	....
Opulus Sterile (Old Fashioned Snowball).			
3 to 4 ft.	1.10	10.00	....
4 to 5 ft.	1.35	12.50	....

Evergreens

Prices listed, unless otherwise noted, include balling and burlapping. All our Evergreens ore two or more times transplanted. All prices subject to change without notice, F. O. B. Western Springs, Ill., pocking additional at cost.

	Each	10
JUNIPERUS Chinensis (Chinese Juniper).		
4 to 4½ ft.	$ 9.00	$ 85.00
5 to 5½ ft.	11.75	120.50
5½ to 6 ft.	13.25	127.00
Chinensis Ketleeri (Ketleer Juniper).		
3 to 3½ ft.	7.25	70.00
3½ to 4 ft.	8.50	80.00
4 to 4½ ft.	9.50	90.00
5 to 5½ ft.	10.50	100.00
6 to 6½ ft.	15.00	120.00
Chinensis Pfitzeriana (Pfitzer Juniper).		
18 to 24 in. spread	5.50	52.50
24 to 30 in. spread	6.50	62.50
2½ to 3 ft. spread	8.50	80.00
3 to 3½ ft. spread	10.00	95.00
3½ to 4 ft. spread	12.25	....
4 to 4½ ft. spread	13.75	....
Chinensis Pfitzer—Upright.		
3 to 3½ ft.	10.50	100.00
3½ to 4 ft.	13.00	....
4 to 4½ ft.	15.00	....
4½ to 5 ft.	17.50	....
5 to 5½ ft.	18.50	....
Glauca Hetzi (Hetz Spreoding Blue Juniper). Habit is similar to Pfitzer; attractive blue foliage.		
24 to 30 in.	6.50	62.50
2½ to 3 ft.	9.00	85.00
3 to 3½ ft.	10.50	100.00
Virginiano Conoerti (Canaert Red Cedar).		
3 to 3½ ft.	7.50	70.00
3½ to 4 ft.	9.00	85.00
4 to 4½ ft.	10.50	100.00
4½ to 5 ft.	11.75	112.50
5 to 5½ ft.	13.50	127.50
5½ to 6 ft.	15.00	....
Virginiano Glouco (Silver Red Cedar). A form of the Red Cedar with silvery tinged foliage.		
3 to 3½ ft.	7.50	70.00
3½ to 4 ft.	9.00	85.00
4 to 4½ ft.	10.50	100.00
5½ to 6 ft.	15.00	....
6 to 6½ ft.	17.50	....
Virginiono Hilli (Dundee Juniper).		
3½ to 4 ft.	9.00	85.00
4 to 4½ ft.	10.50	100.00
4½ to 5 ft.	11.75	110.00
PICEA. Excelso (Norway Spruce).		
4 to 4½ ft.	7.00	65.00
4½ to 5 ft.	9.00	85.00
5 to 5½ ft.	10.00	....
Glouca Densota (Black Hills Spruce).		
2 to 2½ ft.	5.75	55.00
2½ to 3 ft.	6.50	62.50

Please Tell Us How To Ship. We Express Unless Otherwise Instructed. All Prices ore F. O. B. Our Nurseries, Western Springs, Ill.

EVERGREENS—Continued

	Each	10
TAXUS Cuspidoto (Spreoding Japonese Yew).		
15 to 18 in.	$7.00	$67.50
18 to 24 in.	8.00	77.50
2 to 2½ ft.	9.00	85.00
4 ft	20.00	
5 ft. Specimen	40.00	
Cuspidota Copitoto (Upright Japonese Yew).		
2 ft.	8.00	75.00
2 ft. Specimen	10.00	
2½ ft.	9.50	90.00
2½ ft. Specimen	12.00	
3 ft.	12.00	115.00
3 ft. Specimen	15.00	
3½ ft.	17.50	
3½ ft. Specimen	20.00	
4 ft.	20.00	
4 ft. Specimen	25.00	
Intermedio.		
15 to 18 in.	7.00	
18 to 24 in.	9.00	
Media Hotfieldi (Hotfield's Yew).		
2 ft.	8.50	80.00
2½ ft.	11.50	
4 ft.	30.00	
Medio Hicksi (Hick's Yew).		
2 ft.	7.50	70.00
2½ ft.	9.00	
3 ft.	10.50	
4 ft. Specimen	25.00	
4½ ft. Specimen	30.00	

WRITE FOR PRICES ON TAXUS IN LARGER SIZES

	Each	10
THUJA		
Occ. Globosa (Am. Globe Arbovitoe).		
18 to 24 in.	$3.50	$32.50
30 in.	5.25	50.00
36 in.	7.00	67.50
Occ. Rosentholi (Rosenthal Arbovitae).		
5 to 5½ ft.	10.00	
Occ. Woreono (Wore Arborvitoe).		
3 to 3½ ft.	6.75	65.00
3½ to 4 ft.	8.75	72.50

All Evergreens personally selected ond tagged in the Nursery will be charged for according to their value, usually 25% above cotalog price.

WRITE FOR PRICES ON EVERGREENS IN LARGER SIZES.

Hardy Vines

	Each	10	100
AMPELOPSIS Engelmani. A hardy and quick-growing self-clinging vine. 2-year.	$0.60	$4.50	$35.00
Veitchi (Boston Ivy). The grandest hardy climbing vine that clings tightly to stone or brick. Good glossy green leaves, three-lobed, 2-year No. 1	.60	5.00	45.00
CELASTRUS Scandens (Americon Bittersweet). 2-year	.60	5.00	45.00
CLEMATIS (Large Flowering) Henryi (Single white). **Jockmoni** (single purple); and **Mme. Ed. Andre** (single red). 2 yr. No. 1	1.00	8.50	....

Greenhouse Plant Department

AFRICAN VIOLETS—ST. PAULIAS

	Per 100
DU PONT LAVENDER PINK, 2¼"	$30.00
DU PONT BLUE, 2¼"	30.00
LADY GENEVA, 2¼"	25.00
RED HEAD, 2¼"	25.00
DOUBLE NEPTUNE, 2¼"	25.00
PINK GIRL, 2¼"	25.00
MENTOR BOY, 2¼"	25.00

ASPARAGUS Plumosus Nanus or Sprengeri

	100	1,000
SEEDLINGS	$3.00	$28.00
2¼-inch	10.00	95.00

FORCING AZALEAS

Foll 1954—Winter ond Spring 1955

We are growing all of our Azaleas in pots. Pot grown Azaleas are exceptionally practical for the grower with limited labor and bench space. Just slip the plant into the pot size ordered and they are ready to grow and bloom—well grown and heavily budded Coral Bells, Sweetheart Supreme, Pink Supreme, Rutherfordians and Belgian Indicas.

DORMANT BUDDED POT GROWN AZALEAS

Available September to March 1st. Heavily budded plants in above varieties.

Kurume and Pericat Vorieties

4½" pots	$ .75 each
5" pots	1.00 each
6" pots	1.50 each
7" pots	2.00 each

Grofted Belgions

5" pots	$1.25 each
6" pots	1.75 each
7" pots	2.25 each

POTTED AZALEAS FOR CHRISTMAS FLOWERING

Through early potting and pre-cooling, we will have excellent Azaleas for Christmas flowering. All plants are well shaped and heavily budded. Shipping date—Nov. 15th. (Xmas flowering Hexe available for Southern Florists—shipping date Oct. 15th).

Pre-Cooled Coral Bells, Early Rutherfordionas

4½" pots	$ .75 each
5" pots	1.00 each
6" pots	1.50 each
7" pots	2.00 each

Pre-Cooled Grofted Belgians

5" pots	$1.25 each
6" pots	1.75 each
7" pots	2.25 each

Special Trial Case—Christmas—Valentine Day—Easter

For Florists with or without greenhouses potted Azaleas, ready to bloom shipped out of pots, showing color. Just slip into pots and bloom in greenhouse or store. Shipped a week to 10 days before holiday, or when wanted.

20 plants: 8—4½" pots: 8—5" pots and 4—6" pots

SPECIAL PRICE $20.00 net

AGERATUM

No RC orders less than 250

	100	1,000
MASTERPIECE (new wonder light blue) Rooted Cuttings	$2.75	$25.00
RIVERSIDE IMP. Large head of bloom. Rooted Cuttings	2.75	25.00
2¼ in. on the above	7.00	65.00
DEVON BLUE. (New) Purple flowers with bluish cast. 1" to 2" in size.		
PINK. Compact, dwarf growth, soft pink flowers		
Price on above 2 varieties		
R.C.	3.75	35.00
2¼"	8.50	80.00

(500 at 1,000 rate)

BEGONIAS

	Per 100
CORALLINE LUCERNE (TRUE ANGEL WING), 2¼"	$25.00
GENEVA SCARLET, 2¼"	25.00
GENEVA WHITE, 2¼"	25.00
WESTPORT BEAUTY, 2¼"	25.00
THURSTONI, 2¼"	25.00

BEGONIAS STANDARD VARIETIES. 2¼-inch per 1,000, $110.00 $12.00

CHRISTMAS BEGONIAS

	100	1000
LADY MAC, MARJORIE GIBBS AND MELIOR. 2¼-inch.	$40.00	$350.00
LADY MAC, MARJORIE GIBBS AND MELIOR. 3-inch.	50.00	

SCANDINAVIAN VARIETIES for Christmas Blooming

TOVE, KAROLINA, SOLBACHEN, SKAVANE, SPIRIT OF NORWAY, RED SOLFHEIM, DARK SOLBACHEN 2¼" 45.00 400.00

	Per 100
CALCEOLARIA. Seeding Type. Multifloro Nana, Triumph ond Ramona	$18.00
Grown from Cuttings.	
Golden Spray, Yellow / **Flame, Red**	
Amelio Rosacker, Yellow / **Cherry Queen, Dork Pink**	
Joe Marks, Gold / **Pink Beauty**	
Bronze Beauty / **Marie Louise, Red**	
No. 145 Red / **Gold Pride, Yellow-red eye**	
Princess Morio Louise, Red / **Rosacker Brilliant, Red**	22.00
Greater New York / **Suzonne**	
Pure Flame / **Pink Perfection**	
Golden Talisman	
2¼"	28.00
R.C.	16.00

MINIMUM ORDER—50 of o variety

	Per 100	Per 1000
CINERARIAS. Cremer's Prize Mixture and Siter's Strain. 2¼-inch	$12.00	$110.00
COLEUS. Standord vorieties, 2¼ inches	8.50	80.00

(500 at 1,000 rate on all of above)

CYCLAMEN. STANDARD VARIETIES. 3 inch	36.00	350.00
DAISIES. Yellow, rooted cuttings	5.00	45.00
Nicholson's White, rooted cuttings	5.00	45.00
2¼ in. size on both of above	11.00	100.00

GREENHOUSE PLANT DEPT.—Continued

DISEASE-FREE CARNATIONS

Rooted cuttings of 26 varieties of Carnations, taken from isolated Mother Stocks grown from seed, and maintained under every protection from disease that modern science affords, will be available Fall 1954 to Spring 19SS.

So far as human agency can assure, these cuttings will come to you free from any virus, bacterial or fungus disease; and they will give the careful grower a clean start. By continuing the programme of protection, they should be made to yield superior results.

This is an important step forward toward the goal of eliminating the diseases that plague carnation growers, and if results prove its effectiveness, it offers a solution of that problem, but it should be understood that disease-free are not necessarily disease-resistant, or immune, and should not be subjected to unsanitary treatment or handling. They require the same precautionary methods which are necessary in handling ordinary commercial stocks or varieties.

PRICES ON THE FOLLOWING—SEE BELOW

ACHILLES. A large clear white, petals are deeply serrated, large flower, very productive; early producer on strong stems; fine in summer. **P-2**

ADONIS. A good winter production white. **P-3**

APHRODITE. The clear light pink retailers demand; outer petals bleach slightly late spring and early fall. Needs plenty of light to do its best. **P-3**

APOLLO. Should become the leading salmon-pink. Grows well everywhere, a good summer flower, larger than Netta. **P-3**

AURORA. A large White, best in late spring and early fall. **P-3**

CASSANDRA. A lively yellow variegated; pink penciling; this flower never splits, excellent flower substance and an outstanding keeper. **P-2**

CERES. Fair size December to May; small the rest of the year. Beautiful King Cardinal color and really high production. Early, with a heavy comeback. **P-3**

CUPID. A true Braircliff Pink; medium size; high producer; at its best December through April; a good keeper. **P-2**

DIANA. A high producing light pink similar to the Fischer varieties. **P-3**

EROS. Light pink; vigorous heavy growth; early flowering; large flowers with good production. **P-2**

JUNO. A medium sized, flat well formed white flower; very full center. Equally good in fall, winter and spring; a good keeper and shipper. Better than Olivette. **P-2**

JUPITER. A large white that will compete with Northland, Exceptionally good in the Middle West. **P-3**

MIDAS. A substitute for Miller's yellow with excellent production. **P-3**

MINERVA. Unusual deep scarlet-pink. May fade with high light intensity, but does so uniformly. Heavy break-back. Good keeper. **P-3**

NEPTUNE. A scarlet like Wm. Sim. Free breaker, fine stretch; a very satisfactory variety. **P-3**

ORION. Color like Glowing Ember; excellent grower and producer. **P-3**

PANDORA. A dark pink; color has sufficient salmon in it to make it exceptionally beautiful in artificial light. Really a new color for December through April and early May. Good production; fine flower substance. **P-2**

SATURN. Novelty warm bronze variegated; color striking under artificial light. **P-3**

SIREN. A bright scarlet; heavy production; uniform cropping on stems of medium length. **P-2**

TITAN. An intense crimson red; gets into production fast; very full flower and outstanding flower substance; consistent high production. **P-2**

VENUS. A show variety with superlative salmon-pink flowers on long stems. **P-3**

VULCAN. A fine crimson or maroon flower. Excellent keeper, good comeback. Should supercede all others in this class. **P-3**

NEW INTRODUCTIONS

HERMES. The best dark pink for summer. Fine high temperature color, good keeping qualities, above average production and negligible splitting reveal Hermes to be a dependable improvement on Minerva. Winter color is scarlet pink. Direct benching February 1S using single pinch yields crops in July, January and late June. **P-1**

MENTOR. Rich rose pink during fall, winter and spring months. Smooth medium pink during summer. Strong rigid stems, excellent keeping quality and color retention throughout the year. Direct benched February 1S and single pinched, the crops come in July, February and March. **P-1**

THOR. Intense scarlet of medium size especially recommended for dependable color retention during high temperature in the summer months. Good petallage; free habit similar to that of Sim; same winter temperatures are recommended. Consistent production with fast comebacks. From a February 15th direct benching, single pinching procedure, crops come in July, December through January, and early June. **P-1**

VESTA. Very large crimson. Improves the size, color and form of Vulcan and Titan. Dependable color retention; fast Sim stretch and habit. Requires similar environment. Good production with medium splitting. Direct benched February 1Sth, with single pinch, crops were produced in July, January through early February, and late June. **P-1**

PRICES FOR 50 OR MULTIPLES OF 50 OF A VARIETY PER SHIPMENT ARE INDICATED IN THIS TABLE

Price Classification	PER 100					
	50	100-250	300-450	500-950	1000-2450	2500-Up
P-1	$15.00	$14.40	$13.80	$13.20	$12.60	$12.00
P-2	13.50	12.95	12.40	11.90	11.35	10.80
P-3	12.00	11.50	11.05	10.55	10.10	9.60

Prices are F. O. B. Shipping Point.

We assume no transportation risk after shipping in good order. All shipments turned over to a Public Carrier becomes your property: Claims for losses must be filed with the carrier, not us.

Soft plants are not shipped to distant points by freight.

Billing—50 of any one variety at the 100 rate; 250 at the 1000 rate except as noted. Packing will be charged on all orders at cost.

No C.O.D. Shipments.

All Foregoing Prices Subject to Change Without Notice.

CARNATION ROOTED CUTTINGS

	Price Per 100	Price Per 1000
WHITE		
Frosty	$20.00	$160.00
Northlond	12.00	100.00
Olivette	10.00	90.00
White Littlefield	20.00	150.00
White Sim	15.00	125.00
LIGHT PINK		
Charlotte R.	20.00	150.00
Gordon	18.00	150.00
Hercules Virginia	15.00	125.00
Lt. Pk. Littlefield	15.00	125.00
Lt. Pk. Northland R.	20.00	150.00
Light Pink Sim	20.00	150.00
Netta	15.00	125.00
Petersen's Pink Sim	20.00	150.00
Virginia Supreme	12.00	100.00
SALMON PINK		
Janie R.	22.00	180.00
Lexington R.	20.00	150.00
Petersen's Salmon Sim	20.00	150.00
MEDIUM PINK		
Citation R.	15.00	125.00
Peter Fisher	12.00	100.00
Pink Lady R.	20.00	150.00
Virginia Rose	10.00	90.00
DARK PINK		
Boston R.	22.00	180.00
Saugus Pink	18.00	150.00
Sidney Littlefield	20.00	150.00
Virginia Miller	12.00	100.00
RED		
C. W. Weld	$12.00	$100.00
Dark Sim (Laisy)	20.00	150.00
Jumbo Cardinal R.	15.00	125.00
Red Beauty	15.00	125.00
Tom Knipe P.	15.00	125.00
Topper R.	22.00	180.00
Wm. Sim P.	20.00	150.00
Woaster Scarlet	12.00	100.00
YELLOW		
Canary Queen	18.00	150.00
Miller's Yellow	12.00	100.00
Patten's Yellow R.	20.00	150.00
MISCELLANEOUS		
Barbara Brigham	10.00	90.00
Bing Crosby R.	20.00	150.00
Cardinal Sim	20.00	150.00
Cooper's Voriegated Sim	20.00	150.00
Gayety	20.00	150.00
Geiger Var. Sim R.	20.00	150.00
Harlequin	15.00	125.00
Ivory Wonder	15.00	125.00
Mamie	20.00	150.00
Mohawk R.	22.00	180.00
Pelargonium	15.00	125.00
Peppermint Littlefield	20.00	150.00
Raspberry Ice	15.00	125.00
Royalty	20.00	160.00
Sarah Jane Knipe P.	20.00	150.00
Scarlet King	15.00	125.00
Scarlet Sim	20.00	150.00
Starlite	10.00	90.00
Symphony P.	20.00	150.00
Tetro-Sarah Jane P.	25.00	200.00
Tilly	20.00	160.00
Unique	15.00	125.00

P—Patented R—Restricted

MINIMUM ORDER 100 CUTTINGS OF ONE VARIETY
250 At The 1,000 Rate

Sorry we can accept no orders specifying delivery date. All orders will be shipped in rotation, in the order in which they are received.

	Per 100	Per 1,000
FUCHSIAS. Black Prince, Dwarf Dbl. Purple and Rosain		
Potrio, 2¼"	10.50	100.00
R.C.	4.50	42.50
Little Beauty and Dbl. Giant Pink 2¼"	12.50	120.00
R.C.	6.50	62.50
Hollydole and Winston Churchill 2¼"	14.00	130.00
R.C.	8.00	75.00

Ask for quotation on Perennials, Achyranthus, Dusty Miller, Ferns, Coctus, Dish Garden Plants, Snapdrogon, and other items not listed herein.

CANNAS

Dormant Roots ready for February 1st, 1955.	100	1000
CITY OF PORTLAND. 3½ ft. Compact, luxuriant, dwarf growth. Leaves green. Flowers rosy pink	$6.00	$55.00
DOROTHY S. A new dwarf, continuous flowering, clear salmon red canna. A sport of President. Produces large flowers and grows 4 ft. tall. Very vigorous and drought-resistant	8.00	70.00
KING HUMBERT. 4 ft. Scarlet flowers, bronze leaves, greatest favorite today	6.00	55.00
YELLOW KING HUMBERT. 4 ft. An orchid flowering sport of the well known variety King Humbert	6.00	55.00
THE PRESIDENT. 4 ft. In color a rich glowing scarlet with immense rounded flowers 7" across when fully open, produced on strong, erect stems well above the large green foliage	6.00	55.00
HUNGARIA. 3½ ft. Very compact, almost dwarf, and of luxuriant growth. Leaves bluish green, never burn. Flowers La France pink	6.00	55.00

GERANIUMS

Better Times, Imp. Mme. Loundry, Irvington Beauty, Brooks Red, Olympic, Pink Fiot, Red Fiat, Ricard, Radio Red, Lorelei, Poitevine, Buchner, New Ench. Fiat, Sol. Supreme, Hoppy Thoughts, Snowboll. 2¼" **$16.00 $150.00**
Minimum order—100 plants.

HYDRANGEAS—POT GROWN

Fall delivery, 1954, f.o.b. Shipping point. Short heavy canes. Grown and cured right for early forcing. Altona, Europa, Hamburg, Gertrude Glahn, Kuhnert, Regula.

	Each
Single cane, 4 inch	$0.35
Two cane, 5 inch	.50
Three cone, 5 inch	.65
Four cane, 5 inch	.80
Larger plants at	$1.00 and 1.25

MERVIELLE & STRAFFORD

Single cone, 4 inch	$0.40
Two cone, 5 inch	.60
Three cane, 5 inch	.75

ALL PRICES PER 100 PLANTS ON THE FOLLOWING:

Chorm, Dundalk, Rose Supreme, Southlond, Spring Time, "joan merritt". R. C. $20.00; 3-in., $40.00; 4-in., $60.00; 5-in., $70.00; 6-in., $100.00; 7-in. $175.00; 8-in., $300.00

"bobby merritt," "jean merritt," Engel's White, Strofford, Merveille, R. C., $16.00; 3-in., $30.00; 4-in., $55.00; 5-in., $65.00; 6-in., $90.00; 7-in., $150.00; 8-in., $250.00.

Altono, Europa, Hamburg, Kuhnert, Regula, Rosabelle. R. C., $14.00; 3-in., $25.00; 4-in., $50.00; 5-in., $60.00; 6-in., $85.00; 7-in., $125.00; 8-in., $250.00.

OUR SELECTION OF VARIETIES
Billed according to varieties shipped
Order rooted cuttings and 2-in. Hydrongeos now, for Spring Delivery 1955

POINSETTIA STOCK-PLANT PRICE LIST FOR 1955

BARBARA ECKE SUPREME. Patented variety sold only under patent restrictions. Definitely the finest of all pot-plant varieties for the central and northern part of the United States. Stock plants produce freely, can be soft pinched and have the finest-colored bracts, superseding all commercial varieties.
INDIANAPOLIS RED. Exceptionally fine variety for the southern states. Grows short and stocky.

BARBARA ECKE SUPREME and **INDIANAPOLIS RED.**

Per 100:			
Super Jumbo, **$180.00**	No. 1, **$120.00**	No. 3, **$60.00**
Jumbo, **150.00**	No. 2, **90.00**	*No. 4, **40.00**

IMPROVED ALBERT ECKE, ECKE WHITE, and **ALBERT ECKE.**

Per 100:			
Super Jumbo, **$150.00**	No. 1, **$100.00**	No. 3, **$60.00**
Jumbo, **120.00**	No. 2, **80.00**	*No. 4, **40.00**

MRS. PAUL ECKE. OAK LEAF, RUTH ECKE, DBLE. HENRIETTE ECKE, ST. LOUIS, and **PINK.**

Per 100:			
Super Jumbo, **$125.00**	No. 1 **$75.00**	No. 3, **$35.00**
Jumbo, **100.00**	No. 2, **55.00**	*No. 4, **25.00**

Above prices f.o.b. eastern points of distribution, c/o Railway Express Agency.
*All No. 4 plants should be shipped by Railway Express direct from Encinitas to carry through successfully.

ON ALL ORDERS MAILED AFTER JANUARY 1, A 10% PACKING CHARGE WILL BE MADE

ANY CHANGE IN ORDER MUST BE IN BY FEBRUARY 15

PRIMULA	100	1000
Malocoides seedlings	$ 6.00	$ 57.50
Malocoides 2¼ in	12.00	105.00
Obconica 2¼ in.	12.00	105.00
VERBENA. Schlosser's Pride, Schlasser's Rose, Scarlet King, Mayflower, Helen Wilmott, Royal Purple, Beauty of Oxford, cerise, Beauty of Oxford, pink, Beauty of Oxford, scarlet, Beauty of Oxford, lavender, Gigantea Alba.		
ROOTED CUTTINGS	$3.25	$30.00
2¼ INCHES	7.50	70.00
(500 and 1000 rate)		
VINCA, Variegata 2¼ in	11.00	100.00
R.C.	4.25	40.00

DECORATIVE PLANTS

MINIMUM ORDER—25 OF A VARIETY

	Per 100
ARALIA ELEGANTISSIMA, 3"	$100.00
ARALIA SEIBOLDI, 2¼"	15.00
CHINESE EVERGREEN, 2½"	25.00
CROTONS, large leaf varieties, 2½"	30.00
CROTONS, large leaf varieties, 3"	50.00
CACTUS, CHRISTMAS OR LOBSTER, 2¼"	15.00
CRASSULA ARBORESCENS, 2¼"	10.00
CISSUS ANTARTICA, 2¼"	25.00
DIEFFENBACHIA PICTA, 3"	40.00
DIEFFENBACHIA RUDY ROEHRS, 3"	50.00
DRACENA SANDERIANA, 2¼"	25.00
DRACENA GODSEFIANA, 2¼"	25.00
FITTONIA (GREEN AND WHITE), 2¼"	25.00
FARFUGIUM GRANDE (LEOPARD PLANT), 3"	100.00
GREVILLEA ROBUSTA (SILK OAK), 2¼"	10.00
HOYA CARNOSA VARIEGATED, 2¼"	35.00
HOYA CARNOSA GREEN, 2¼"	25.00
IVY HAHN'S NEW VARIEGATED, 2¼"	15.00
IVY LARGE LEAF VARIEGATED, 2¼"	25.00
IVY SELF BRANCHING, 2¼"	10.00
IVY IDEAL, 2¼"	10.00
IVY PIXIE, 2¼"	15.00
IVY ENGLISH BROAD LEAF, 2¼"	8.00
IVY GRAPE (VITIS RHOMBIFOLIA), 2¼" $100.00 per M	11.00
LEMON AMERICAN WONDER OR PONDEROSA, 2¼", one year	25.00
LEMON AMERICAN WONDER OR PONDEROSA, 3", two year, 16 to 18"	50.00
NEPHTHYTUS RUTENSCHRORER'S TRI-LEAF WONDER, 2¼"	25.00
NEPHTHYTUS LIBERICA, 2¼"	10.00
NEPHTHYTUS WINDLANDI, 2¼"	20.00
NEPHTHYTUS GREEN GOLD, 2¼"	20.00
NEPHTHYTUS WHITE GOLD, 2¼"	25.00
PHILODENDRON CORDATUM, 2¼"	15.00
PHILODENDRON DUBIA, 4"	125.00
PALM CHAMAEDOREN, 2¼"	25.00
POTHUS WILCOXI, 2¼"	15.00
PEPEROMIA OBTUSIFOLIA, 2¼"	10.00
PEPEROMIA OBTUSIFOLIA VARIEGATED, 2¼"	15.00
PEPEROMIA PERICATA, 2¼"	15.00
PEPEROMIA SANDERSII, 2¼"	25.00
PEPEROMIA SCANDES, 2¼"	10.00
RHOEO DISCOLOR (MOSES IN THE BULRUSHES), 2½"	25.00
TANGERINE, 3" two year, 15-18"	50.00
SANSEVIERIA LAURENTI, 3"	40.00
SANSEVIERIA LAURENTI, 4", extra heavy	65.00
SANSEVIERIA LAURENTI, 6", made up plants	150.00
SANSEVIERIA ZEYLANICA, 2¼"	10.00
SANSEVIERIA HAHNI, 2¼" (rosette)	15.00

MISCELLANEOUS PLANTS

	Per 100
ACHYRANTHUS BRILLIANCY, 2¼"	$ 8.00
ABUTILON SOUV. DE BONN, 2¼"	15.00
BELOPERONE GUTTATA, 2¼"	10.00
BOUGAINVILLEA CRIMSON LAKE, 2¼"	30.00
BROWALLIA SPECIOSA MAJOR, 2¼"	10.00
BUDDLEIAS, HARTWEGI. ELEANOR, CHARMING, DUBONNET AND SNOW CLOUD, 2¼"	12.00
DELPHINIUM MURPHEY'S HYBRIDS, field grown	15.00
DELPHINIUM PACIFIC HYBRIDS, white, field grown	25.00
DELPHINIUM PACIFIC HYBRIDS, pastel shades, field grown	25.00
DELPHINIUM MURPHEY'S HYBRDIS, 2¼", ready May 1st	10.00
DELPHINIUM PACIFIC HYBRIDS, white, 2¼", ready May 1st	15.00
DELPHINIUM PACIFIC HYBRIDS, pastel shades, 2¼", ready May 1st	15.00
FUNKIA VARIEGATA, field grown, fine for pot plants	25.00
GYPSOPHILA BRISTOL FAIRY, grafted plants, 2¼"	25.00
GYPSOPHILA BRISTOL FAIRY, grafted plants, 3"	35.00
GYNURA (VELVET PLANT), 2¼", a real novelty	15.00
HARDY FUCHSIA SENORITA, 2¼"	25.00

SPECIAL GREEN FOLIAGE PLANTS

Reody for Delivery April 15th ond loter

	Per 100
POTHOS MARBLE QUEEN, 2¼"	$25.00
POTHOS MARBLE QUEEN, 2 plants to a 2¼" pot	35.00
POTHOS MARBLE QUEEN, 3 plants to a 3" pot	50.00
POTHOS WILCOXI, 2 plants to a 2¼" pot	20.00
POTHOS WILCOXI, 4 plants to a 3" pot	35.00
PHILODENDRON CORDATUM, 2 plants to a 2¼" pot	20.00
PHILODENDRON CORDATUM, 4 plants to a 3" pot	35.00
PHILODENDRON DUBIUM, 3"	60.00
PHILODENDRON PERTUSUM, 3"	90.00
FICUS DOESCHERI, 3"	75.00
NEANTHE BELLA PALM, 2¼"	25.00

LANTANAS. Radiation, Michael Schmidt, Sensotion, Golden King, Lady Olivia, Alba Perfecta, Southern, Caprice, Dwarf Beauty, Weeping, etc. or o good mixture of obove. 2¼"	100 **$11.00**	1000 **$100.00**
R. C.	**4.25**	**40.00**

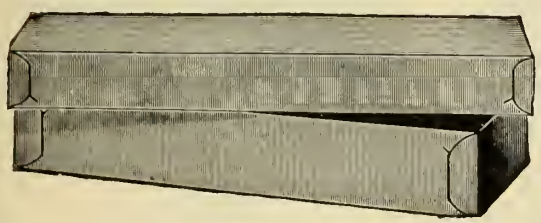
PELARGONIUMS

Standard Vorieties

Size	Per Dozen	Per 100	Per 1,000
2¼ inch	$2.90	$20.00	$190.00
3 inch	3.85	28.00	270.00

Supplies for the Florist Shop

CUT FLOWER BOXES



CUT FLOWER BOXES

S-1412 CUT FLOWER BOXES MIST GREEN. Shallow covers. 2 piece box, wide creases, die cut corners, water-proofed green tint on inside. Sturdy flower boxboard. Wrapped 50 complete to bundle.

24x5x3½", per 100, $10.75; 36x8x5", per 100, $22.95; 30x5x3½", per 100, $12.75; 42x8x5", per 100, $31.50; 28x8x5", per 100, $17.75.

S-1408 CORSAGE BOXES MIST GREEN. Shallow covers. 9x5x4", per 100, $6.50; 12x5x4, per 100, $7.60; 10x6x5½", per 100, $8.75.

S-1414 DESIGN AND BOUQUET BOXES MIST GREEN.

	Full Telescope	Shallow Lid
24x14x8", per bundle of 50	$22.50	$18.75
30x14x8", per bundle of 50	23.95	19.95
36x14x8", per bundle of 50	25.80	21.50

5% discount on orders for 500 or more.

Printing at $4.50 per 1000 or less for one color ink. Write for prices on white glazed boxes. They are made from coated board but have a laminated sheet of high gloss paper.

CARNATION PACK

S-1205 Your carnations deserve proper packing. Price 1,000, $27.50; 5,000 for $127.50; 10,000 for $235.00; 50,000 for $1037.50. Sold only in original cartons of full 1,000. Printing 1 color $3.75 per 1,000 extra. 10,000 or more printed 1 color free.

S-1205A MUM PACK. Price 1,000 for $25.00; 5,000 for $110.75; 10,000 for $185.00. Printing included in the prices.

FLORIST CARDS FOR ALL OCCASIONS

Sympathy, get-well, birthday, baby, congratulations, and all holidays. Your own selection. Packed in packages of 25 of one style.

S-1232

250 assorted at . . . $1.50 1,000 assorted at $3.95
500 assorted at . . . 2.50 2,000 assorted at 7.25

S-1232 WHITE ENVELOPES, PLAIN. Size 2½x4¼", packed 250 to a box. 250 for $1.70, 500 for $3.00, 1,000 for $5.85.

S-1218 FLORIST-FOIL. Colored aluminum foil used for pot covers, etc. Rolls. 20 inches wide. Colors, violet, silver, gold, green, red, purple, fuchsia, pastel green, pastel blue, black and blue. Per 50-ft. roll, $1.30; 10 rolls for $12.00.

S-1268 POLKA DOT EMBOSSED FLORIST FOIL. In all colors. Rolls 20 inches wide, 50 feet long, each, $1.60, 10 rolls, $15.00.

PAPER—WRAPPING, TISSUE, WAX

S-1243 FLORIST WRAPPING PAPER. Green Say It With Flowers. Distinctive wrapping paper created for exclusive use of florists. Its extra strength and pliability insure neat appearing packages. The rich two-tone floral background and distinctive floral slogan makes every package wrapped in Floral Wrap an attractive package. Price per lb. 29c; 5 roll lots, 28c lb.

24" roll weighs approximately 35 lbs. 30" roll weighs approximately 47 lbs. 36" roll weighs approximately 57 lbs.

S-1242 BROWN KRAFT WRAPPING PAPER. In rolls 24 inch, 30 inch and 36 inch. Price per lb., 13c.

Prices on Paper Subject to Market Changes.

S-1283 PURE WHITE GLAZED FLORIST TISSUE. The best grade white glazed 11 lb. basis. 24x36 inches, F. O. B. Chicago, ream (480 sheets), $3.25; 10 reams (4,800 sheets), $28.75; F. O. B. New York, ream (480 sheets), $3.40; 10 reams (4,800 sheets), $31.00.

S-1304 WHITE WAX. Medium, 24x36 inches; F. O. B. Chicago, 480 sheets, $2.95; F. O. B. New York, 480 sheets, $3.40.

S-1303 GREEN WAX. Beautiful shade light green, 24x36 inches, F. O. B. Chicago, 480 sheets, $3.20; F. O. B. New York, 480 sheets, $3.50.

S-1302 GREEN WAX TISSUE ROLLS 3". Handy wax tissue for all types of wire designs. Prices per box of 12 rolls, $3.60.

S-1213 WATERPROOF CREPE PAPER. In green, red, blue, white, pink, lavender, yellow, purple; per roll, 45c; 12 rolls for $5.04; 50 rolls for $21.00.

S-1278 SCOTCH CELLULOSE TAPE TRANSPARENT ½ in. wide x 2592 inches, price per roll, $1.51; 12 rolls at $1.36 per roll; 48 rolls per roll, $1.21.

S-1280 SCOTCH CELLULOSE TAPE DISPENSER. Heavy duty, each, $2.50; weight 8 lbs.

S-1279 COLORED SCOTCH CELLULOSE TAPE ½ inch wide x 2592 inches. Per roll, $1.98; 6 rolls, per roll $1.79. Available in the following colors: Red, Blue, Green, Orange, Yellow, White and Silver.

S-1211 CARNATION SAF-PAK. One piece, saves time and labor. Gives complete support. Eliminates breakage in shipment. Enhances beauty of flowers. Shipping boxes which previously held 700 carnations can now, with the use of Saf-Pak, hold up to 900 carnations without breaking flowers. Saves space and express charges. Prices of unprinted Saf-Paks, 1,000 for $31.50, 3,000 for $90.00, 6,000 for $171.00, 10,000 for $260.00, 25,000 for $600.00 and 50,000 for $1,150.00. Printing $3.50 per 1,000. In quantities of 10,000, $2.50 per 1,000. For more than four lines of printing there would be an extra charge.

MOSS FILLED WREATHS AND DESIGNS

Machine made Sphagnum Moss filled designs always ready to use. NET Prices.

Spray Bars

3½" wide, 2" thick

Length	Ea.	Length	Ea.
8"	$0.23	18"	$0.41
10"	.26	20"	.45
12"	.28	22"	.49
14"	.31	24"	.52
16"	.35	30"	.58

Spray Bars

4½" wide, 2½" thick

Length	Ea.	Length	Ea.
18"	$0.59	36"	$0.97
24"	.71	42"	1.09
30"	.85	48"	1.19

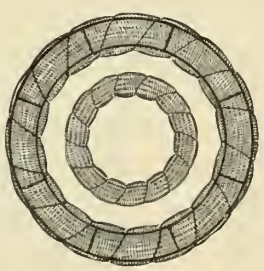
Spray Bars

6" wide, 2½" thick

Length	Ea.	Length	Ea.
24"	$0.86	42"	$1.29
30"	.98	48"	1.63
36"	1.11		

Crosses

Size	Ea.	Size	Ea.
18"	$0.74	30"	$1.36
20"	.83	33"	1.52
22"	.93	36"	2.13
24"	1.04	42"	2.93
27"	1.17	48"	3.44

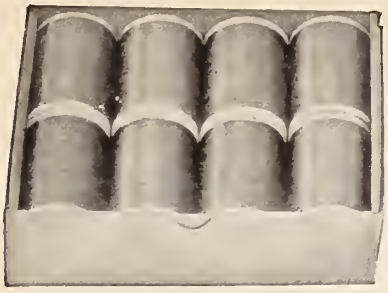


Wreaths

Size	Ea.	Size	Ea.
10"	$0.37	24"	$0.98
12"	.43	27"	1.23
14"	.52	30"	1.57
16"	.61	33"	. . .
18"	.69	36"	. . .
20"	.80	42"	. . .
22"	.88	48"	. . .

We have a limited supply of wire designs, wire baskets, easels and wreaths, and will fill orders while the supply lasts.

Prices subject to change without notice



FLORISTS' THREAD, GREEN

S-1247 Best brand. Similar to Silkaline, 8 spools to a box. Per lb. box, $1.90; 10 boxes for $18.00.

TWINE

S-1307 "THE QUEEN" WHITE COTTON TWINE. 3 or **S-1308** 4-ply. Put up in 5-lb. sacks, 30 balls to a sack, $4.25; 5 bags for $20.00.

Write for prices on larger quantities

GREEN TWINE

S-1281 Used for wrapping small packages—also for spray and design work. Put up in balls. 1-lb. box, $1.45. 5 boxes at $1.40 per box.

GREEN TWINE

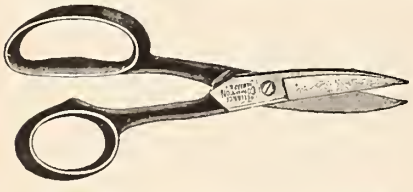
S-1281 2 lbs., per cone, $2.85; 3 cones for $8.25.

HYACINTH STAKES (Matchsticks) Green

S-1560 12 in. per 1,000, $4.15; per case of 4,000, $16.20. 15 in. per 1,000, $4.60; per case of 4,000, $18.00. 18 in. per 1,000, $5.00; per case of 4,000, $19.40.

FLORISTS' SNIPS

S-1012A (Especially suitable for cutting wire, etc.) Each, $2.45.



IMPROVED DENTAL SNIPS

S-1012 For cutting annealed wire, ribbons, chiffon, etc. Each, $2.75.

AQUA PIN

S-1203 Plastic, heart shaped vase. Per box of 3 dozen, $3.50; per gross, $12.00.

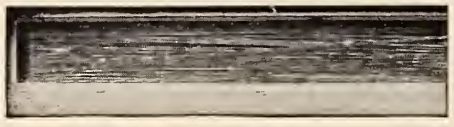
WICK-FED PLASTIC POTS

S-1430 4 inch diameter in following shades—ivory, lavender, blue, yellow, red and pink with black base. Retail each at $1.00; per dozen, $7.20.

S-1431 5 inch retails at $1.50; per doz., $10.80.

WIRED PICKS

S-1558 2½-inch Plain, case of 50,000, $23.05; Box of 10,000, $4.75. **S-1554** 3-inch Green, case of 40,000, $30.80; **S-1557** Box of 8,000, $6.60. **S-1554** 4-inch Green, case of 10,000, $11.90; **S-1557** Box of 4,500, $6.00. **S-1554** 6-inch Green, case of 10,000, $15.45; **S-1557** Box of 3,000 $4.75.



Green Enameled Florist Cut Wire

S-1310 18 inch lengths, 12 lbs. to a box.

Gauge	Per box	Case of 6 boxes	Gauge	Per box	Case of 6 boxes
18	$3.65	$21.60	22	$4.40	$26.10
20	$3.95	$23.40	24	$5.15	$30.60
21	$4.20	$24.90	26	$6.50	$38.70

WIRE

(Prices subject to change).

S-1313 FLORIST WIRE on 12-lb. coils.

No. 18 . . . $2.35
No. 20 . . . 2.45
No. 22 . . . 2.75
No. 24 . . . 2.90
No. 26 . . . 3.10
No. 28 . . . 3.35

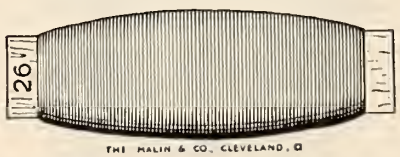
FLORISTS' CUT WIRE

S-1312 Clean, extra soft wire, cut in 12 or 18-inch lengths, 12 lbs. to box.

No. 18	20	21	22	24	26
$2.60	$2.90	$3.00	$3.20	$3.80	$4.25

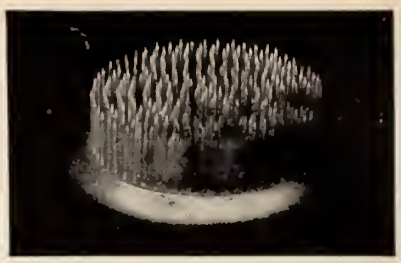
GALVANIZED BENCH WIRE

S-1314 Used for stringing benches in Carnation and Rose houses. No. 16, 100-lb. coil, $15.95. No. 18, 100-lb. coil, $17.25, minimum order 50 lbs.



MALINS EXTRA SOFT FLORAL BINDING WIRE

S-1216 These sticks fit the hand. Handy for tying sprays, bunting, wreaths, etc. Put up in boxes of 20-¼ lb. sticks, total weight per box 5 lbs. #22, $2.25 per box; #24, $2.70 per box; #26, $3.00 per box; #28, $3.60 per box; #32, $4.45 per box and #36, $6.25 per box.



PIN FLOWER HOLDERS

S-1219 Solid Brass Needle pointed nails. Closely cast in heavy lead alloy base. Guaranteed not to rust. Sprayed with aluminum metallic paint.

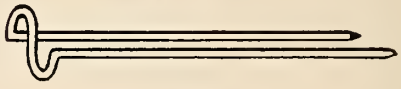
No.	Size of Base Round Style	Price Per Doz.
No. 0	1⅜"	$1.20
No. 1	1⅝"	2.10
No. 2	2⅛"	3.90
No. 3	2⅝"	6.00
No. 4	3⅛"	7.50
No. 5	3⅝"	10.50
No. 6	4¼"	15.00
No. 7	6"	21.00

No.	Three-in-one Oval style	Price Per Doz.
No. 8 Oblong	1⅜" x 3½"	$5.10
No. 9 Oval	1⅞" x 3½"	6.00
No. 10 Oval	2¼" x 4⅜"	9.00

BULL DOG CLIPS

S-1208 The clip with the grip. Per box of 1,000 clips, 75c; 10 boxes for $7.00.

Prices subject to change without notice.



FERN PIN

S-1265 NEW PHILLY. The bend holds the leaves firmly; easier to handle. Per box, $3.50.

TERRA COTTA GRASS GROWING HEADS

S-1718 Heads should be soaked in water for 24 hours; also soak seed in separate dish over night. Fill the head with water and spread the seed very thickly all over head. Keep head filled with water at all times. In warm temperature seed may appear to be dry, if so, spray lightly with water using care not to wash seed off head. Keep in a saucer to protect the furniture.

We can supply "Sunny Jim," with seed, per doz., $4.00, packed 24 to a carton at $7.50 per carton. We can also supply the larger heads. "Buddy" with seed per doz., $4.80; per carton of 24, $9.00.

FLORAGLOW. Beauty treatment for pot plants. Just spray or wipe on. Instantly produces beautiful and lasting luster, yet looks natural.

S-423 Per case of 24—6 oz. bottles, 18 lbs. $ 6.50
S-424 Per case of 24—6 oz. spray tops for above 3.00
S-423 Per case of 12—32 oz. bottles, 40 lbs. . . . 10.10
S-423 Per gallon, for florist use, each 2.00

S-426 FLORAWAX. To prevent wilting of arrangements and greens of all kinds. Spray or dip flowers Per gallon, $2.50; 5 gal. drum, $10.00.

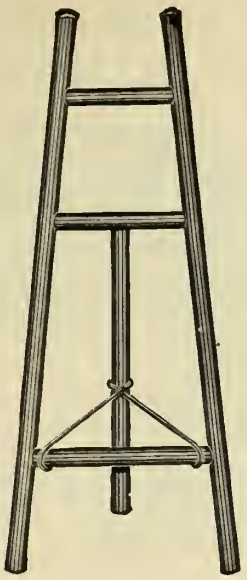
SNO-PAK. The ideal floral base. Keeps flowers fresh. Saves labor, wire, picks. Useful in great number of arrangements.

Per case of 18 bricks . . . . . $ 8.65
Per case of 48 bricks 20.38

AMERICAN WHITE CROSS ALL PURPOSE No. 3 + FIRST AID KIT. +

S-1902 Kit should be kept handy in every greenhouse, floral shop or nursery. It contains ointment, Mercurochrome, bandages, adhesive plaster, absorbent cotton, pair small scissors, gauze, etc. Kit complete with White Cross First Aid instructions. $1.75; 3 for $5.00.

WHITE WOOD ROUND BEADED EASELS



S-1915 Pre-war style and quality, white wood, round beaded, enameled. Not nailed, put together with screws. Packed 12 to a carton. Packing cost, $1.25 per carton. Extra.

Height	Price Doz.
36 inch.....	$ 9.55
42 inch.....	11.55
48 inch.....	13.00
54 inch.....	14.35
60 inch.....	15.60
66 inch.....	16.30
72 inch.....	16.90

GOLD SCRIPT WORDS

S-1228 Gold finish. In the following inscriptions: Mother, Father, Brother, Sister, Asleep, etc.; ten words in package. Price, per package of 10 words, 15c; per 100 words, $1.40; per 1,000 words, $12.00.

GILT RIBBON LETTERS

S-1227 Gummed. 25 Letters in a package in letters A to Z, figures 1 to 9. 1¼ in. Per 100, 35c; per 1,000 $2.25.

JARDIERS, VASES, BOXES

JARDIER POT COVERS. Popularize the potted plant—because they safeguard the appointments of the finest homes—table tops, linens, window sills—from soilage and overflowing saucers. These are inexpensive, yet take the place in beauty and service of expensive jardinieres. Save time and labor over other methods of trim.

JARDIER JARDINIERS

Vases

JARDIER JARDINIERS

S1424 JARDIER JARDINIERS

Sizes	Top Diameter Inside	No. per carton	Approx. wt. per carton	Price per carton
No. 4J-1	5⅛ in.	100 white	27 lbs.	$10.00
No. 5J-1	6¾ in.	90 white	46 lbs.	12.15
No. 6J-1	7¾ in.	60 white	44 lbs.	9.90
No. 7J-1	8¾ in.	40 white	37 lbs.	10.00
No. 8J Straight Side	9½ in.	24 white	24 lbs.	9.12

VASES

S-1420 No. 400 Rose Vase. Height 10 in., Top Diam. 5 in., per carton of 40, White, $9.60 per ctn.

S-1421 No. 500 Spray Vase, Height 10 in., Top Diam. 7½ in., per carton of 18, White, $6.66 per ctn.

S-1422 No. 700 Mum Vase, Height 13½ in., Top Diam. 9 in., per carton of 12, White, $6.60 per ctn.

DISCOUNTS: Less 5% on orders of two or more cortons of voses, jordiers, and bulb boxes; less 7½% on orders of five cases or more.

PAPER MACHE CONTAINERS

S-1425 No. 600 WEDGEWOOD. Top opening 10½ inch x 4¼ inch at ends, 6¼ inch at center. Depth 7 inches. Wide base assures stability. Wide curved ends prevent kinking and breaking stems. Very strong. 30 in. carton. White $9.90 per carton.

S-1426 No. 800 FANTASY. Top 10½ inches x 4¼ inches at ends, 5⅝ inches at center. Depth, 10 inches. Attractive fan-type vase with exclusive features. Embossed panels form rectangular corners inside which prevent stems from shifting. Wide flat bottom and weighted base. 12 to carton. White, per carton $5.88.

No. 4 Jardier Bulb Box

THE JARDIER BULB BOX

Here is the final solution to bulb and plant "box ideo" and its mony possibilities.

The Jardier box is absolutely waterproof. Place the soil and plants directly into the Jardier. It is the least expensive and most practical method of carrying out the beautiful box idea. Jardier Boxes are self-aerating—same as Jardier Vases—stimulating plant growth.

S-1419 No. 4—WHITE. 12 in. long. 5 in. wide, 4¼ in. deep. $27.00 per 100—packed 50 per carton.

S-1418 HYACINTH GLASSES (Vases). In crystal shade only. Per carton of 36 vases, $9.90; 3 carton lots at $9.50 per carton.

Blue or amber iridescent lustre packed 3 doz. of one color to a carton. Price per carton $13.50.

Hyacinth Glass

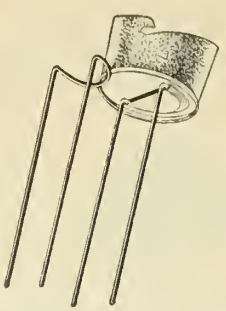
A GOOD VARIETY OF SIZES IN THESE FLOWER VASES

Galv. Vase

S-1416 And they are built right. Galvanized, hand soldered, with wire reinforcement at the top—the sides tapering so that they nest. Attractively striped in red.

Style	Diameter Top	Diameter Bot.	Ht.	Price Per Doz.
253	4¾ in.	3½ in.	10 in.	$12.60
255	6½ in.	5¼ in.	12 in.	14.40
257	6½ in.	5¼ in.	15 in.	17.40
59	6½ in.	5½ in.	7 in.	11.40
65	7½ in.	6½ in.	8 in.	13.50
66	9 in.	7½ in.	10 in.	16.85
68	9 in.	7½ in.	12½ in.	19.45
68B	9 in.	7½ in.	15½ in.	21.00
69	9 in.	7½ in.	18 in.	23.40
70	9 in.	7½ in.	24 in.	28.00

Prices Subject to Change.



Flat Bottom Vase

Cemetery Vase

FLAT BOTTOM CEMETERY VASE

S-1403 No. 2A. Detachable stem. Packed 3 doz. to carton. Price per carton, $5.25; gross, $19.80. Weight per carton, 11 lbs.

CONE SHAPED CEMETERY VASE

S-1403 No. 4. 9½ in. deep, 5 in. in diameter at top. Stem or spike is 3 in. long, made of No. 9 gauge steel. Packed 3 doz. to carton, price per carton, $5.25; per gross, $19.80. Weight per carton, 12 lbs

STATICE

S-1299 STATICE NATURAL WHITE. Used extensively in Wreaths and Baskets. Natural per lb., $1.10; 5 lbs. for $4.25.

Write for prices on larger quantities.

S-1435 MOIST-SHUR PLANTRAYS. Leaf green color. Made of finest grade unbreakable rubber. They are beautiful and economical. In an attractive display stand consisting of 27 Plantrays listed as follows:

Size	Plantray Takes Up To	Deal Quantity	Retails Each	Your Cost	Retail Value
#1	6 in. pot	12	$ .45	$2.60	$5.40
#2	8 in. pot	9	.75	3.71	6.75
#3	12 in. pot	4	1.45	3.28	5.80
#4	for Ferns and Palms	2	2.50	3.30	5.00
Total			Price,	$12.89	$22.95

S-1434 The above Plantrays without display stand #1, Per doz., $2.60; #2 Per doz., $4.95; #3 Per doz., $9.80; #4, Three for $5.00.

RIBBONS AND CHIFFONS

We offer only the best grades especially adapted for Florists' use, but can also supply other grades not listed

S-1202 PATTERN ALITA No. 5. A fine quality ribbon, excellent for tying mats and crepe paper around pots, also used for making bows, baskets and wreath work. Can also be used for corsages. Comes in all colors. 50 yard bolt.
Each, 95c; 10 bolts for $9.00

S-1201 PATTERN ALITA No. 3. Corsage ribbon in all colors. 50 yard bolt. Each 75c. 10 bolts for $7.00.

S-1215 PATTERN EMPIRE No. 5. A good quality pot tie ribbon. 50 yard bolt. Each 85c. 10 bolts for $8.00.

S-1221 SHOWER RIBBON PATTERN GLAMOUR No. 2. Embossed edge best quality satin shower and corsage ribbon. Comes in white and pink. 50 yard bolt, each, 80c. 10 bolts for $7.50.

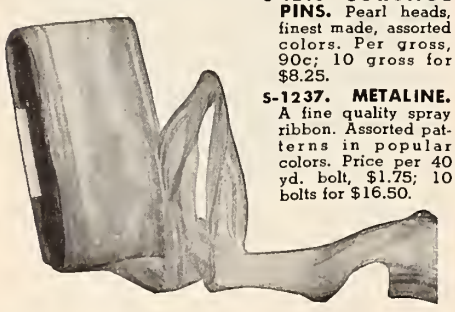
S-1282 TINSEL RIBBONS. Silver or gold No. 2 width per bolt $1.15; 5 bolts for $5.50; No. 3 width per bolt $1.25; 5 bolts for $5.75.

S-1204 No. 1½ BABY RIBBON. Any color. 5pool of 100 yards, $1.50, doz., $16.80.

S-1273 RIBBONZENE CRINKLE BABY RIBBON No. 1. For tying cards. All colors. 500-yard spool, $1.20; 10 spools, $11.50.

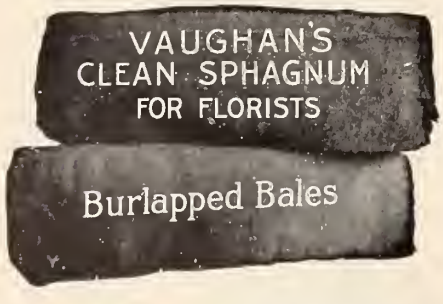
S-1222 PATTERN GLAMOUR No. 3. Finest quality corsage ribbon. 50 yard bolt, each 95c. 10 bolts for $8.50.

S-1223 PATTERN GLAMOUR No. 5. 50 yard bolt, each, $1.35. 10 bolts for $12.50.



S-1210 CORSAGE PINS. Pearl heads, finest made, assorted colors. Per gross, 90c; 10 gross for $8.25.

S-1237. METALINE. A fine quality spray ribbon. Assorted patterns in popular colors. Price per 40 yd. bolt, $1.75; 10 bolts for $16.50.



SPHAGNUM AND SHEET MOSS

S-1807 SPHAGNUM MOSS. Bright, clean, new growth, free from brush or grass, is being worked out in Wisconsin district. We quote L. C. L. lots as follows:

BALES. (45 x 14 x 16 inches). F.O.B. Wisconsin Points. For carloads, write us.

	F.O.B. Chicago	F.O.B. Woods
1 to 5 bales	Each, $2.25	
6 to 10 bales	Each, 2.15	10 Bale lots, $1.75
11 to 24 bales	Each, 2.00	25 Bale lots, 1.60

New York Prices 60c per bale higher.

S-1806 SHEET MOSS GREEN, Extra fancy large sacks for Windows, Baskets, etc. Per sack, $2.75; 3 sacks, $7.85.

Prices Subject to Change Without Notice

S-227 New KAPSULATE

A COMBINATION OF SODIUM SELENATE PLUS FERTILIZER IN CAPSULES

Just display KAPSULATE — They sell for themselves

ATTRACTIVE RESALE PACKAGES

25c SIZE
5 Kapsulates per packet. Display case of 24 pkts. $3.60

50c SIZE
12 Kapsulates per packet. Display case of 12 pkts. $3.60

$1.25 COMBINATION
24 Kapsulates per box and 2½ oz. of PLANT-L-IZER*.
*A soluble high concentrate of nutrients and hormones. No other plant food or trace elements necessary. Case of 12 Combinations $7.20

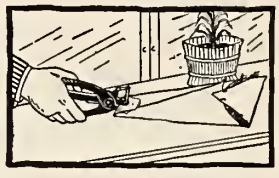
SPECIAL DISPLAY EASEL
Consists of 36 25c size plus 2 $1.25 size. Retails for $11.50, Your cost, $6.60.

GROWERS' SIZES

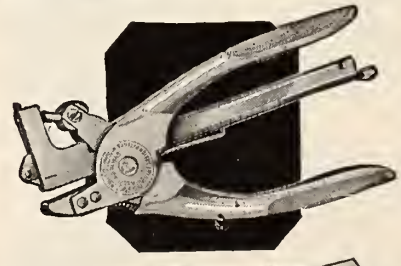
100 Kapsulates	$ 2.35
500 Kapsulates	11.25
1000 Kapsulates	21.50

NEVA-CLOG STAPLING PLIERS

Florists Save Time and Make Money with Wide-Jaw Neva-Clog Stapling Pliers



S-1295 FLORISTS' MODEL S100. For wrapping plants and cut flowers, making up corsages, wreaths and light baskets, making paper flower pot covers, attaching delivery tags to plants and flowers, sealing seed and bulb envelopes and 101 other uses. Has ¾-inch jaw and uses ¼-inch and ⅜-inch staples as listed elsewhere on this page. Price, each, $4.50; 3 for $12.75.



STAPLES

All Neva-Clog staples are sharpened at the points to make easy penetration of material. The forming is perfect and the cohering very strong to prevent strips breaking upon being handled at high speed by workman. Both lengths are 100 to a strip, 1/16-inch crown, 1,000 to a box.

S-1285 A—1,000 ¼-inch legs. ..... Per Box of 5,000, $1.75.

S-1287 L—1,000 ⅜-inch legs. ..... Per Box of 5,000, $1.75.

10,000 lots, per 1,000, 30c; 25,000 lots, per 1,000, 27c; 50,000 lots, per 1,000, 25c.

Model J-30 Lightweight Stapler Ea. $3.75

Staples for Model J-30 ..... Per Box of 5,000, $1.50

BULK SIZES

Handsome, Colorful Counter Display

S-425 Use original, patented FLORALIFE! Bring customers back for more of your cut flowers because they last 5 to 10 days longer! Blossoms hold color and fragrance. No need to change water or to re-cut stems. Opens buds extra wide!
FLORALIFE sells on sight at 10c to all flower lovers. A fine profit for you. Packet prices in cartons; 25 2-qt. size, $1.25; 100 2-qt. size, $5.00.
Enclose a packet with each sale. And put it in your vase-flower orders. Also in your stock pots. FLORALIFE makes flowers, under refrigeration, last weeks longer.

FLORALIFE IN BULK

30-qt. size ($1 retail)	$ 0.60
100-qt. size ($3 retail)	1.75
250-qt. drum (10 lbs. net)	4.00
500-qt. drum (20 lbs. net)	7.50
1000-qt. drum (40 lbs. net)	13.50
2000-qt. drum (80 lbs. net)	25.00

S-134 VIOL-OGEN. Complete growing kit for African Violets including rooting and potting soil, special plant food and insecticide. Each complete kit retails at $2.95, per dozen kits $23.60. Weight, 5 lbs. each. 6 kits for $12.25.

Plant, Pot and Garden Labels

RAINBOW GARDEN LABEL

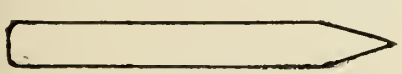
S-1528 A high grade weatherproof tempered label, will last indefinitely. Size of labels 1½x3x⅛" thick. Marking although indestructible by weather may easily be erased or rubbed off with soap and water so that the label can be reused. It can also be used as a support when not being used as a label. Easy to read because of white marking on dark background. The stake is made of high grade silver, bright galvanized steel. Label with 9 inch stake, per kit of 12 including white special weatherproof pencil for $1.50, per doz. kits $12.00. Markers with 18 inch stakes per kit of 24, $2.75, per doz. kits, $22.00. Kit of 50 markers 18 inch stake, label 2x4x⅛ inch thick, price $5.00, per kit of 100, $9.00.

S-1515a ZINC TREE LABELS. For an enduring label these are unsurpassed. They last for many years. Writing is done with an ordinary lead pencil; gets plainer with age. They are copper wired and measure 3¾ x ¾ inch. Price per 100, $1.95; 500 for $9.00.

S-1515b COPPER LABELS. Wired, indestructible. Per 100, $2.25; per 1,000, $21.00; **S1515c** larger size, per 100, $2.95; per 1,000, $27.50.

S-1512 EVERLASTING ZINC LABEL. A permanent label; holds lead pencil marks permanently in all weather, one piece, 6 inches over all. Price per 100, 85c; 500 for $4.00.

S-1563 PERMATAG Aluminum Plant Markers. Permatags are a unique and easy to handle marker designed for identification of all types of plants and nursery stock. With Permatags you merely write the name into the metal and it becomes permanent; will never wear off. Permatags are rust and weatherproof, will not darken with age or change color. Permatags are not expensive, very little more than wooden labels. You will find Permatags the most popular plant marker you have ever sold. Counter display box of 36 pkgs. of 24 labels per package, price, $5.40 each, retails for $9.00. Shipping wt. 3 lbs. Permatags in bulk for florists and nursery use packed 1,000 to a shipping carton, price, $5.25 per 1,000. Shipping wt. 3 lbs.



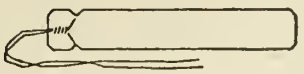
Pot Label

LABELS (Pot). We carry the best quality of Wooden Labels made. They are smooth, strong and neat, ⅝ inch wide. When ordering, specify pot labels or garden stakes, painted or plain.

	Packed to Carton	S-1507 Plain Per 1000	S-1508 Painted Per 1000
4-inch	1000	$2.90	$3.40
5-inch	1000	3.10	3.70
6-inch	1000	3.40	4.15
8-inch	500	5.00	6.20
10-inch	500	6.00	7.30
12-inch	500	7.00	8.60

GARDEN LABELS

	Packed to Carton	S-1509 Plain Per 1000	S-1510 Painted Per 1000
8-inch—⅞" wide	250	$ 7.30	$ 8.50
10-inch—⅞" wide	250	8.30	9.60
12-inch—1⅛" wide	100	14.00	16.00



LABELS (Tree). Wooden, 3½ in. copper wired. Per 1,000, **S1542** plain, $3.40; 5,000 to 9,000, per 1,000, $3.30; **S1541** painted, per 1,000, $4.20; 5,000 to 9,000, per 1,000, $4.15.

S-1505 DREAM SPIRAL WRAP ZINC LABELS. The only permanent label that expands as the plant grows. Size 1¼ in. x 4 in. The acid etched name and full record of plant (especially for roses, azaleas, trees, shrubs, etc.) plainly legible for 15 years. Eliminates all chance of girdling. Makes a wonderful non-rusting label for pots and perennial beds.

"KIT" size, 24 4-inch LABELS, one oz. of etching ink (enough for 200 labels) and a writing applicator for $1.00; per doz. kits, $7.60. 50 Zinc LABELS, one oz. of Etching Ink and writing applicator for $1.75; doz. $12.80. 1,000 Zinc LABELS, 5 oz. bottle of Etching Ink and applicator for $15.50.

S-1517 OVAL TOP PLANT MARKERS. 9 inch stamped galvanized metal, oval plate, tilted so it can be read from a standing position. Price per 100, $5.50, 500 for $26,00; 1,000 for $50.00.

S-1524 VAUGHAN'S TRANSPARENT PERMANENT PLASTIC LABEL. Made of the plastic "styrene," which is as transparent as glass, but unbreakable, and weatherproof, this label is provided with tilted plaque, easily read from above, on which name is written in a scriptor red marking pencil. Small size, overall height 6 inches, plaque 2 x 4 inch. dozen, $1.50; per 100., $10.00. Large size, overall length 12½ in., plaque 2½x5 in., doz., $2.25; 100, $15.00.

S-1519 Scriptor red pencil, 35c.

Prices subject to change without notice.

S-1529 No. 31 SIMPLEX, Green Weather-Proof Plant Labels. Price includes copper wires for attaching, steel stylus for marking. No. 31, size, 3x½ inch, per 100, $3.25.

RUBBER APRONS

S-1116 BLACK LIGHTWEIGHT. Each, $3.50 Prices subject to change.

S-1113 VINYLITE PLASTIC APRON

Strong and durable. Made of 20 gauge material. Same size as illustrated rubber apron. Each $1.85; 3 for $5.25.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

LABEL MARKERS

S-1520 WEATHER-PROOF PENCILS. For marking labels. Will not rub off or fade. Each, 10c; doz., 85c; 6 doz., for $4.50.

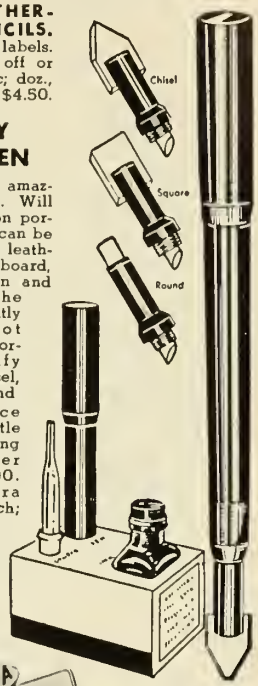
SPEEDRY BRUSH PEN

This is the new amazing brush pen. Will write or mark on porous surfaces. It can be used on wood, leather, textiles, cardboard, paper, glass, tin and cellophane. The ink dries instantly and does not smear. When ordering specify type of nib; chisel, square or round

S-1533 Price each with bottle of instant drying ink $1.75. Per dozen, $15.00.

S-1534 Extra nibs at 40c each; dozen, $3.60.

S-1531 Speedry Ink, per 4 oz. bottle, 80c; 16 oz. btl., $2.60; 32 oz. btl., $4.50.



S-1532 IRVA ALUMINUM TY-ON PLANT TAG DEFIES WIND AND WEATHER—MODEL 10. 25 tags to a package. Retails at $.25 per package. Display Carton of 36 packages $6.00. Impression on these metal markers is made very easily by placing markers on soft pad and writing on with any ordinary pencil. The impression lasts indefinitely. Won't fade or wash off. YOU WILL KNOW TOMORROW WHAT YOU PLANTED TODAY.

S-1536 IRVA ALL ALUMINUM GARDEN MARKERS FOR POTS AND GARDEN. DEFIES WIND AND STORM. Model 15. A modern package on an attractive self-selling card. Retails at $.50 per card of 10 markers. Display box of 12 cards $4.00

Plant Stakes, Supports and Ties

S-1562 WOOD STAKES, GREEN PAINTED Medium weight pointed. 3 ft., per 100, $8.35; 4 ft., per 100, $11.85; 5 ft., per 100, $15.10.

S-1561 WOOD STAKES, Green Painted, Heavy Grade. 4 ft., per 100 $17.75; 5 ft., per 100, $22.65; 6 ft., per 100, $26.95.

S-1502 BAMBOO STAKES, Plain and Painted.

	F.O.B. Per 100	Chicago Per 1000	Per Bale of 2000	F.O.B. Per 100	New York Per 1000
1½ feet	$0.90	$ 3.50	$ 6.00	$0.90	$ 3.50
2 feet	1.00	4.50	7.75	1.00	4.50
2½ feet	1.15	5.50	9.75	1.15	5.50
Natural. 6 ft.	2.50	16.00	...	2.50	16.00
3 feet	1.35	7.25	12.75	1.35	7.25
3½ feet	1.75	9.00	16.00	1.75	9.00
4 feet	1.90	10.00	18.00	1.90	10.00

S-1539 HEAVY TONKIN STAKES, NATURAL COLORS. Heavy weight bamboo. Entire stake same weight, does not taper. Ideal for roses, dahlias, young trees, etc. Just the thing for florists and nurserymen. Lasts a lifetime.

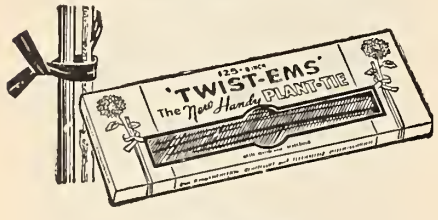
Length	Diameter	F.O.B. New York Per 100	F.O.B. Chicago Per 100
4 feet	½ to ⅝ inch	$ 8.50	$ 9.00
5 feet	½ to ⅝ inch	10.00	11.00
6 feet	⅝ to ¾ inch	11.00	12.00
7 feet	⅝ to ¾ inch	13.00	14.00

GALVANIZED WIRE STAKES

	No. 8 ga. S-1555 per 1000	No. 9 ga. S-1556 per 1000
3 feet	$27.40	$23.45
4 feet	36.55	31.30
5 feet	45.70	39.15

	No. 8 ga. per 1000	No. 9 ga. per 1000
6 feet	$54.80	$46.95
7 feet	63.95	54.75
8 feet	73.10	62.60

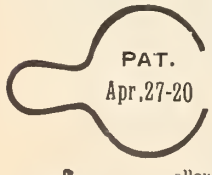
Prices subject to change without notice.



TWIST-EMS

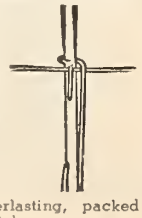
S-1545 New handy utility plant ties, deep green color, same shade as foliage of plants. Do not break or come loose. The wire running through the center of tape makes them unbreakable and they cannot come unfastened. Tape protects stem against injury. For all types of plants and other vegetable crops. Price 4 inch per 1,000, 90c; 25,000 lots at 83c per 1,000; 8 inch per 1,000 $1.60; 25,000 lots at $1.45 per 1,000; 12 inch per 1,000, $2.35; 25,000 lots at $2.23 per 1,000; 16 inch per 1,000, $3.25; 10,000 lots at $2.90 per 1,000. Write for prices on larger quantities.

S-1544 TWIST-EMS ASSORTMENTS. Assortment B contains 24 pkgs. of 100 8-inch. Retails at 25c per pkg. Price per asst., $4.00. C asst. contains 24 pkgs. of 200 4-inch. Retails at 25c per pkg.; per asst. $4.00. D asst. contains 24 pkgs. of 100 16-inch. Retails at 50c per pkg. Per asst., $8.00. G. asst., 250 feet continuous roll packed 12 to a display carton, $8.00, retails at $1.00 per roll.



S-1244 PLANT TIES LIGHTING WIRE. Per box of 1,000, $2.15; 5 or more boxes, $2.10 per box. Shipping weight per box, 2 lbs.

S-1564 BLAKE STAKE FASTENERS. For roses 'mums, etc., up-to-the-minute stake holder; hold stakes with firm grip. Loop clips allow you to remove and replace any stake any time. They never slip and are a great saving in time and money. Price $2.45 per 1,000. 5,000 for $12.00. Samples mailed free.



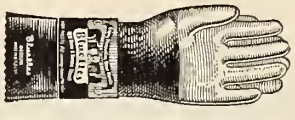
S1538 STAKE FASTENERS. Everlasting, packed 500 to a box, per box, $2.65; 10 boxes or more, $2.55 each.

S-1527 RAFFIA. Natural, Best Grade, F. O. B. Chicago. Lb., 65c; 5-lb. lots, per lb. 60c; 10-lb. lots, per lb. 55c; 25-lb. lots, per lb., 50c; 100 lbs., per lb., 46c. Bale lots (about 225 lbs.), per 100 lbs., $42 00.

S-1526 DYED—Old gold, green, navy blue, orange, brown, blue. Per lb., $1.10; 5 lbs., for $5.25; 10 lbs., at $1.00; 25 lbs., at 95c.

S-1044 FLEXIBLE RUBBER COATED GLOVES. Made with new high tensile fabric construction and processed to provide the maximum in comfort, flexibility and wear. Coating is fully water and liquid proof. Oil and grease resistant. Provides complete hand protection against dirty, rough or harmful materials. Ideal for gardening and general work around the greenhouse, home or farm. Price per pair, $1.00; per dozen pair, $9.00.

S-1019 GREEN THUMB GLOVES. New Improved. Soft, washable for garden and house use, Women's small, medium and large. Specify size when ordering. Price per pair, 89c; per doz., $7.08. **S-1014** Men's size, doz. $7.84.



S-1099 NEW BLUETTES HOME AND GARDEN GLOVES. Neoprene coated elastic knit. Short fingers to fit every hand snug to the tips. Knit lining unlike old style rubber coated canvas gloves. In Small, Medium and Large sizes. Price pair, $1.49; Doz., $11.68; Specify sizes when ordering.

S-1042 Made of imported leather processed to make it pliable as kid and washable. An ideal glove for men and women gardeners. Will outwear six cotton gloves. Sizes for women: "Small," "Medium," "Large"—for men: "Medium" and "Large." Price $1.50 a pair. Ladies', Doz., $13.60. Men's, Doz., $14.50.

MILL CREPE DUPLEX TREE WRAP

S-1543 For covering the trunks of transplanted and newly set fruit and shade trees. Helps your stock to get off to a healthy start. Rolls, 4 inches wide, about 150 ft. to a roll. Weight about 2 lbs. Each, 65c; 10 rolls for $6.00; 30 to 50 rolls at 55c roll.

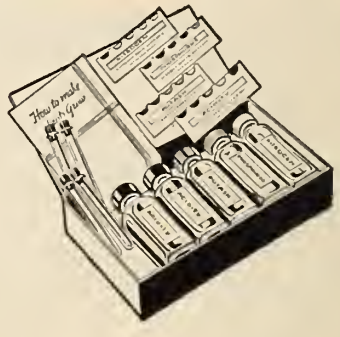
SOIL TESTERS

The Sudbury Horticultural Soil Test Kit, $14.95

S-808 The Sudbury Horticultural Soil Test Kit makes instantly available the essential information you require for gardening success. With it you can make quick practical tests which will show the acidity of your soil and any possible deficiency in nitrogen, phosphorus and potash. As a result, you can avoid failure by prompt adjustment of your soil to the requirements of your plants and grasses. Sudbury Soil Test Kits are used by leading amateur and professional growers throughout the country. The Horticultural Kit contains one third as much solution as the professional kit. The Sudbury Horticultural Kit, complete with instructions and table of plant needs, $14.95.

S-807 THE SUDBURY DELUXE PROFESSIONAL MODEL SOIL TEST KIT—Contains enough material for 200 to 300 professional tests. Price complete with instruction $29.95.

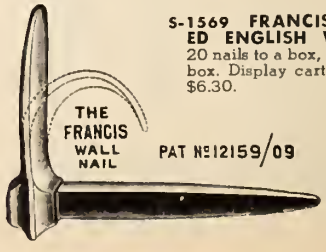
TESTING FLUID FOR REFILL S-787—For acidity. When ordering, it requires **S-788** for No. 2 and **S-789** for No. 3 to make Nitrogen Tests, **S-790** for No. 4 and **S-791** for No. 5 for Phosphorus Tests and **S-792** for No. 6 and **S-793** for No. 7 to make Potash Tests, therefore when ordering, please order two numbers. 2 oz. bottle, $1.35; 6 oz. bottle, $2.50.



The Sudbury Home Gardener's Soil Test Kit, $2.98

S-809 This simple, practical easy-to-use kit is your best insurance of gardening success. Made by the maker of professional field test kits used by nurserymen, growers and greens-keepers throughout the country. The Home Gardener's Kit tests for nitrogen, phosphorus, potash and acidity, giving complete information for the intelligent adjustment of your soil to the requirements of your plants and grasses. No technical skill required. Results of tests are apparent immediately. Complete with instructions and table of plant needs, retail at $2.98; six for $11.95.

S-810 NEW CLUB MODEL KIT. An inexpensive kit. Makes 50 individual tests. Each, $5.89; 3 for $11.80.



S-1569 FRANCIS LEAD HEADED ENGLISH WALL NAILS. 20 nails to a box, retail at 85c per box. Display carton of 12 boxes, $6.30.

Greenhouse and Glazing Tools and Materials

S-1610 GARLANITE. The original white glazing compound, remains soft and flexible, easy to apply and to remove. 5-gal. kegs, $18.25; gal. cans, $3.80. 10 gals. or more prepaid.

S-1609 GARLAND WHITE SHADING COMPOUND. 25 lbs. is equivalent to 2 gals. 25 lbs., $4.35; 50 lbs., $8.00; 100 lbs., $15.00; 350 lbs., $45.50; **S-1608** green 2c per lb. higher, F. O. B. Chicago or Cleveland, O.

S-1633 TAM'S SHADING COMPOUND. Save on shading painting. Stays on in rainy weather and is easily removed when no longer needed; none better made. White, per 100 lb. bag, $15.00.

S-1632 Green, 3c per lb. higher.

S-1601 GARLAND'S BLACK BULBING CEMENT. A pure asphalt glazing compound for greenhouse use. Will not crack or run and adheres to all glass and framework or sash. One gallon to 300 lineal feet. Apply with Mastica Machine or Bulber. 60, 40 and 20-gal. drums at $1.60 a gal.; 10 and 5-gal. drums at $1.75 a gal.; 1-gallon can, $1.95.

S-1611 MODEL "O" SAFETY GLAZING GUN. Gratis with 40 or 60-gal. drum of glazing cement. Each, $4.75.

S-1919 VITAPLASTIC GREENHOUSE MAINTENANCE PRODUCTS, VITA BAR SEAL PAINT. Effectively seals and protects Greenhouse Bars, having excellent durability and adhesion to both bars and glass due to the exclusive use of Vitaloid. 1 gallon, $5.50.

S-1921 VITA PLASTIC BLACK SHADE CLOTH PRESERVATIVE. One gallon treats 300 sq. ft. Should be reduced 20% with Vita Plastic thinner. Price per 5 gal. can, $22.50. F. O. B. New Jersey out of Chicago stock $26.00.

S-1917 NU-PUTTIE. This superior putty will not dry out or crumble. Seals tight, remains pliable. Can be used for glazing, sealing and caulking. Natural color, light grey. **Gun grade** per gallon, $2.75; 5 gals. for $12.00; 55 gal. drum for $110.00.

S-1917A KNIFE GRADE. 25 lb., drum for $4.25; 50 lb. drum for $7.50: 100 lb. drum for $14.00.

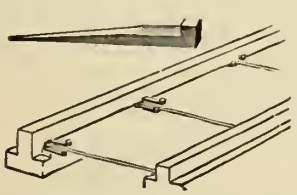
S-1104 PUTTY KNIFE, No. 120. A very good tool. Each, 60c; 3 for $1.50.

S-1613 GLAZING POINTS VAUGHAN'S PERFECTION—NO RIGHTS OR LEFTS

No. 2½. For large single thick glass or Double thick, for greenhouses and skylights.

No. 2½. Per lb. (about 800), 80c; 5 lbs. at 75c per lb.

Write for prices in larger quantities



S-1612 SIEBERT'S IMPROVED.—PURE ZINC. Easy to drive and made so they will not wedge or crack glass in driving. The head gives a good surface and makes it very easy to drive with a chisel, and the point is very easily pulled out in repairing greenhouse roof. Two sizes, ⅝ and ⅞ in. long, put up in 1-pound packages. Over 1,500 points in 1-lb. pkg. of ⅝ in.; over 1,000 points in 1-lb. pkg. of ⅞ in. Price, per lb., 75c; 5 lbs., $3,25; 20 lbs., $12.00.

S-1625 PUTTY BULB, SCOLLAY'S. A useful tool similar to the well-known Scollay Sprinkler, with a tube instead of spray for applying liquid putty in glazing greenhouses. Each, $1.50; 3 for $4.35; doz., $16.80.

S-1631 MT. BEACON SHADING COMPOUND. Green gal., $4.85; 5 gal. drum, $23.75; complete directions on each container.

S-172F FUMICOVERS. A new lightweight plastic material for use in greenhouse bench sterilization, for partitioning, for shading Mums and for other purposes. Comes in black or clear transparent material. Lapping cement included in each roll. Samples available upon request. 100 x 10 ft. roll, $32.00, 100 x 13 ft. roll, $42.50, 150 x 6½ ft. roll, $32.00, 150 x 10 ft. roll, $45.00 and 150 x 13 ft. roll, $63.85.

S1928 GLASS CLEANER, LITE-NING CRYSTALS. Instantly dissolves hardest crust of dirt, grease, soot, scum, or shading. Under ordinary conditions dissolve ½ pound of Lite-ning crystals in one gallon of water. For exceptionally dirty glass use one pound. Brush on glass, then rinse off with water. Will not injure plants or putty. 5 lbs. for $6.75; 10 lbs. for $12.00; 25 lbs. for $27.50; 100 lbs. for $90.00.

S-1606 GLASS CUTTER TROJAN ROLLER TYPE. Doz., $2.85; each, 30c.

CONA COPPER NAPHTHENATE WOOD PRESERVATIVE. Can also be used for treating burlap. Will guard against rot and termites. Is safe, nonirritating, and as easy to use as paint. Each gallon of Cona-Six makes 4 gallons of treating solution when thinned with mineral spirits such as insecticide base or turpentine substitute.

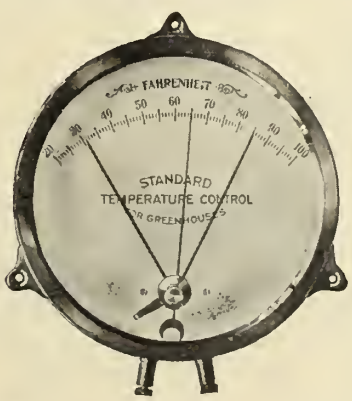
S-409 Cona-Six, 1 gal. cans, $3.90 ea.; 5 gal. drum, $18.25; 55 gal. drum $192.50 each.

S-413 CUPRINOL No. 14 FOR FLORISTS. Recommended for general use in wood preservation around the greenhouse for stakes, flats, benches, etc. Covers approximately 400 sq. ft. Brush applied. May also be used for dipping. Price, 5 gals. for $14.90; 50 gal. drum, $132.50.

S-412 CUPRINOL WOOD PRESERVATIVE EXTRA STRENGTH. Recommended for brush application for permanent structures. Price per gal., $4.70; 5 gal., $22.00; 50 gal. drum, $190.80.

Prices subject to change without notice.

GREENHOUSE THERMOMETERS

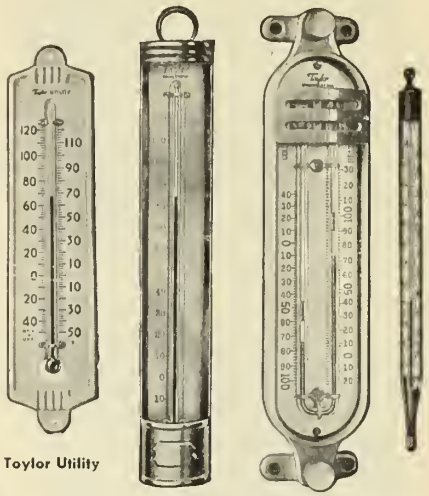


S-1648a STANDARD GREENHOUSE THERMOSTAT. No. G. H. 4, arranged in a 7-inch enameled, hermetically sealed metal case supplied with padlock and key. Contact hands when set can be changed only by person having key. Price, $22.00. Shipping weight, 4 lbs.

S-1648 STANDARD GREENHOUSE THERMOSTAT. No. G. H. 3, enclosed in 6-inch non-rusting metal case. Contact hands are set by a stud extending through the glass. Price, $17.00. Shipping weight, 2 lbs. Prices do not include wire, batteries or bell.

THERMOMETERS

TAYLOR-TYCOS



Taylor Utility — Tin Case — Self Registering Hotbed

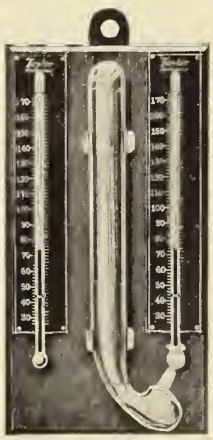
S-1645 THERMOMETERS. TIN CASE. Standard grade (tested). 12 inches. Guaranteed accurate tin case thermometers, black oxidized metal scale, heavy magnified easy reading tube, each, $3.50; 3 for $9.75; doz., $36.00.

S-1640 SELF REGISTERING TYCOS. No. 5448, with magnet. 10 in. Maximum and minimum registering thermometers mounted on substantial plastic frame, guaranteed accurate, complete with magnet, each $10.00. Three for $24.00.

S-1644 SOIL THERMOMETER TEL-TRU No. FC 220. New type dial stem, highly recommended for measuring soil temperatures. Very accurate. Dial diameter 2⅛ in., stem length 6 in. Registers from 0 to 220°. Price each, $3.50; 3 for $9.50.

S-1634 TAYLOR UTILITY THERMOMETER. White vitreous enamel scale, black figures and graduations; easy reading red permacolor tube which will not fade; prongs on top and bottom for easy mounting, about 8 inches. Each, $1.75; doz., $17.50.

S-1638 HOTBED (MUSHROOMS). All glass heavy plain, each, $1.75; 3 for $4.80.



Hygrometer

Moximum and Minimum Model 5321

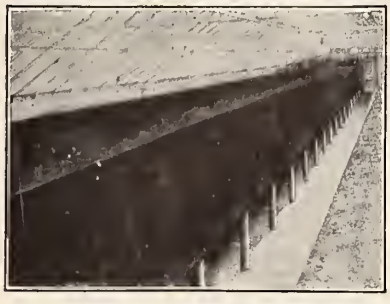
No. 5532 HYGROMETER

S-1620 Permacolor tubes with magnifying lens, indoor temperature range. Scales have burnished metal figures and graduations on a polished lacquer background. Frame is mahogany bakelite with revolving humidity table and easy filling reservoir. Each in attractive box complete with spare wicks and instructions. Each, $9.00. Wicks for Hygrometer, per dozen, $1.50.

STANDARD RECORDING THERMOMETER No. 200. Furnished with daily chart No. 3 or weekly chart No. 2 Range of temperature 20° to 120° F. Price, $60 00.

S-1639 TAYLOR NEW MAXIMUM AND MINIMUM THERMOMETER. Model No. 5321. Set in water-proof plastic case 4¾ in. x 1 in. Will register lowest, highest, and present temperatures. Can easily be reset. Price each, $7.50; 3 for $18.00.

Hot Bed Supplies, Florist Knives



S-1931 AMERICAN BLACK SHEEN SHADING CLOTH. For shading early chrysanthemums during the normal summer growing season in greenhouses, cloth houses, or outside, as it will bring your blooms in on schedule. Ideal for outdoor shading as it will allow the rain to penetrate and not lie in pools on top. Guaranteed fast black, closely woven, treated and pre-shrunk to produce 99% darkness. Comes in 36 inch widths. Can be sewed to any width in multiples of 36 inch widths.

Prices per sq. yd.	Un-sewed	Sewed
100 sq. yds. or more	$0.59	$0.65
50-99 sq. yds.	.64	.70
20-49 sq. yds.	.69	.75
Less than 20 sq. yds., Minimum charge	15.00	15.00

S-1932 KNIGHT BLACK SHEEN SHADING CLOTH. A heavier cloth designed for indoor shading on a year-round program as it cuts out 100% of all light. Recommended especially by universities and experimental stations for off-season growing where total exclusion of light is essential. Otherwise same as American Black Sheen.

Prices per sq. yd.	Unsewed	Sewed
100 sq. yds. or more	$0.65½	$0.71½
50-99 sq. yds.	.70½	.76½
20-49 sq. yds.	.75½	.81½
Less than 20 sq. yds., Minimum Charge	16.50	16.50

S-172- FUMI-COVERS, PLASTIC, FOR STERILIZING, FUMIGATING AND SHADING. Made of Velon, a lightweight pure vinyl plastic film of 3 gauge. Used as a gas-tight cover with chemical soil fumigants or steam. Available in CLEAR or BLACK plastic. The black Fumi-cover can also be used in shading mums.

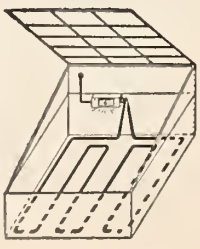
6½ ft. x 150 ft., wt. 21 lbs.	$32.00
10 ft. x 100 ft., wt. 22 lbs.	32.00
10 ft. x 150 ft., wt. 32 lbs.	45.00
13 ft. x 100 ft., wt. 25 lbs.	42.50
13 ft. x 150 ft., wt. 38 lbs.	63.75

S-1930 VISQUEEN FILM COVER. Lightweight covers made of polyethylene or clear plastic of 4 gauge. Widely used with soil fumigants such as Dowfume MC-2 and for steam sterilizing where a lightweight cover is satisfactory.

10½ ft. wide., 100 ft. roll	$30.00
13½ ft. wide, 100 ft. roll	35.00
16 ft. wide, 100 ft. roll	40.00

GRO-QUICK
Electric Seed Bed Heater

S-1626 Soil heating cable and thermostat. Jr. package contains thermostat and 40 ft. 200 watt cable for 3x6 ft. hot bed or 25 square ft. of cold frame. Price $5.95 ea.; 3 for $16.50. Sr. package contains thermostat and 80 ft. 400 watt cable for 6x6 ft. hot bed or 50 square ft. of cold frame. Price $6.95; 3 for $19.30. Jr. cable only price $1.95; Sr. cable only price $3.65.



S-1615 SOIL HEATING SETS, CABLES AND CONTROLS. General Electric sturdy, lead covered cable and heavy duty thermostats; the very best. For hotbeds, cold frames or greenhouse benches. Soil can be maintained at 15°-20° F above general house temperature.

One 30 ft. cable (110 volt, 180 watt) heats 18 sq. ft. of bench area.

One 60 ft. cable (110 volt, 400 watt) heats 36 sq. ft. of bench area.

One 120 ft. cable (220 volt, 800 watt) heats 72 sq. ft. of bench area.

Set. No. 1 with H5C-4 thermostat and 30 ft. cable. Thermostat is rated 10 amp. for 110 volt AC only. Price each $14.10.

Set No. 2 with HSC-4 thermostat and 60 ft. cable. Price each $17.85.

Set No. 3 with H5C-2 thermostat and 60 ft. cable. Thermostat is rated 15 amp. up to 250 volt AC only. Price each $27.60.

Set No. 4 with HSC-2 thermostat and 120 ft. cable. Price each $38.40.

Sets No. 1 and 2 will control one or two 60 ft. cables or up to six 30 ft. cables. Sets No. 3 and 4 will control up to four 60 ft. or 120 ft. cables. Thermostats are equipped with 3 ft. rubber cord, duplex outlet and male plug.
Extra 30 ft. cable, each $6.35.
Extra 60 ft. cable, each $10.35.
Extra 120 ft. cable, each $21.90.

GLASS WOOL

S-1607 Protection and perfect mulch for your prized Plants and Shrubs, has been proved superior to all other mulches for the winter protection of plants. A snowy white blanket composed of extremely fine glass fibres. Packed 9 rolls to a carton, 24" x 96" in size, 144 sq. ft. Price per carton, $10.50; three cartons for $30.00.

VITAPANE GLASS SUBSTITUTE

S-1624 Crystal-clear transparent, durable, glossy material. Admits over 60% ultra violet rays for greenhouses, hot and cold bed frames, hot houses, as plant protectors and everywhere glass is generally in use. Put up in 50-ft. rolls, 36 inches wide. Price per roll, $8.00; 150 ft. Roll, $24.00.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HOT BED MATS

For protecting Hotbeds, made of poplin, material vat dyed and Sanforized to make them damp proof, 72x72" price each, $8.50; dozen $96.00.

CEL-O-GLASS

S-1602 Will take the place of glass in hotbed sash, unbreakable and very light in weight. Properly installed, Cel-O-Glass will not break like glass or tear like cloth, flexible, easy to handle and install. Put up in rolls 3 ft. wide up to 100 ft. long. Price per 25-ft. roll, $10.00; 100 ft. roll, $36.00.

FLORISTS' KNIVES

The Budding, Grafting, Pruning and Florists' Knives illustrated below are designed and made to meet the exacting requirements of nurserymen, orchardists, florists and gardeners who are extremely particular in the choice of their cutting equipment.

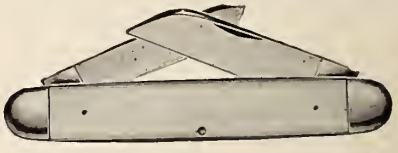
	Each	3 for
S1079 BUDDING, No. 5A. Black handle; brass lined	$3.25	$9.00

S1084 VAUGHAN'S FLORIST. Model 182, 3 for $7.00. Each, $2.50

S1085 SCHRADES HEAVY PERFECT PRUNING KNIVES. Model 186, similar to Henckel No. 3C Each, $2.25; 6 for $12.00

S-1052 HENCKELS. Model 727W Imported two blade budding and propagating, Each, $4.00; 6 for $21.60

S-1054 HENCKELS. Imported black handle, propagating, Model 778CB. . . . Each, $3.10; 6 for $16.80



S-1086 VAUGHAN'S BUDDING AND PROP., Model 716, with Brass Caps, Each, $2.75; 6 for $14.40; Doz., $27.00

S-1087 WHITE HANDLE, Model 195, silver nickel shackle for chain attach. . Each, $2.00; 6 for $11.00.

S-212 GRAFTING WAX. Per ¼-lb. bar, 30c; ½-lb. bar, 45c; 1 lb. 75c.

Seed Flats, Paper Pots and Bands

NEPONSET "TOM THUMB" FLATS

S-1540 Made of heavy fibre resinous material. Easily set up. Comes in two sizes to bold either a dozen 1¾-inch bands or a dozen 2-inch. You will find these ideal for counter sales of bedding or vegetable plants. Price, size No.1, $44.70 per M; complete witb 12,000 No. 10 bands, $86.45 per M; size No. 2, $49.60 per M; price complete with 12,000 No. 10 bands, $95.65 per M. For custom Printing add $3.00 per 1,000 flats.

S-1438 NEW BIRD VITA-POTS. For growing and sbipping, containing nutrients that are readily available as plant develops. Eliminate labor of knocking plants out of pots and repacking rootball. Eliminate bandling and storage of beavy pots. Lightweight, reduces sbipping charges. Also reduces damage claims.

Size	Per Case Quan.	Per Carton Sbip. Wt.	Price per Carton F.O.B. N.Y.	Price per Carton F.O.B. Chi
2 inch	1,000	19 lbs.	$14.60	$14.60
2¼ inch	1,000	23 lbs.	14.95	14.95
2½ inch	1,000	30 lbs.	15.50	15.50
3 inch	1,000	41 lbs.	17.40	17.40
4 inch	500	36 lbs.	12.85	12.85
5 inch	500	58 lbs.	16.70	16.70
6 inch	500	77 lbs.	22.05	22.05

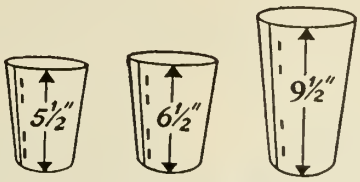
BIRD GROWTH-STIMULATING PLANT BANDS

S-1552 VITA-BAND D contains root growtb until grower chooses to let root tbrough Band. Only quick, slight pressure is needed to crack Band. Do not remove Vita-Band "D" when transplanting. Band disintegrates in the soil permitting free growth of roots from time of transplant. Nutrient-treated with quickly available plant food.

S-1553 VITA-BAND 10 for sbort growing periods. Will usually contain root growtb up to approximately 8 to 10 weeks. Nutrient-treated with quickly available plant food . . . your judgment determines need for additional feeding. Vita-Band 10 is identical to Vita-Band "D" except Vita-Band 10 is removed at time of transplant. Vita-Band "D" is not.

S-1565 VITA-BAND H is the new nutrient-treated successor that replaces Bird Vita-Band 40. Vita-Band "H" will control root growtb of tbose plants wbicb demand extra long growing periods.

☞ **Prices on pots ond bands subject to chonge without notice**



S-1439 BIRD PERENNIAL POTS. Now you can pot your plants for display and sale for five months instead of tbree. Tbis pot will stand up under any handling hazard. They are constructed of an extremely durable material plus a solid stapled bottom for guaranteed safety in bandling. They are much lighter than other pots of this type, but are strong and durable.

Sizes	5½"	6½"	9½"
Per ctn. of 200	$ 7.70	$11.00	$13.20
Per 1000	36.50	51.50	62.85

S-1428 GRAY'S STAPLED PLANT CONTAINERS.

Type	Top Dia.	Wt. Lbs.	Per 100	Per 1000
No. 5	5"	35	$4.25	$35.00
No. 6	6"	52	5.70	51.50
No. 7	7"	78	6.50	57.00
No. 8	8"	88	7.25	63.00

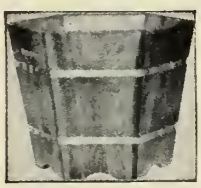
Total of 400 or more pots takes 1000 rate.

NEW CLOVERSET POTS. 1/3 lighter in weight, 20% stronger than the old standard pot. Total of 400 or more pots takes 1000 rate. We Do Not Break Cartons.

S-1407 CLOVERSET POTS. F.O.B. Chicago

Std. Pots	Top Dia.	Quantity Per Carton	Wt. Per 1000	Per Carton	Per 1000
No. 0	5 inch	200	210 lbs.	$4.25	$40.00
No. 1	6 inch	100	331 lbs.	$5.75	$48.00
No. 2	7 inch	100	520 lbs.	$6.50	$57.00
No. 3	8 inch	100	550 lbs.	$7.25	$63.00
No. 4	12 inch	Per 100	130 lbs.	Carton of 25	$7.75; 100, $26.75.

BEAUTIFUL CALIFORNIA PLANTUBS MADE OF REDWOOD



S-1432 For utility and beauty in any garden, impregnated witb linseed oil to preserve natural beauty of wood. Rounded top and bottom edges to prevent splintering. Made of well seasoned California redwood. Bound with brass bands. Ventilation under tub. Grooved bandles.

	Outside Heigbt	Inside Diameter	Price
No. 1—12 in.	10 in.	$3.50 ea.	6 for $18.60
No. 2—14 in.	14 in.	$4.75 ea.	6 for $26.10
No. 3—16 in.	16 in.	$6.00 ea.	6 for $33.00
No. 4—18 in.	18 in.	$6.50 ea.	6 for $35.40
No. 5—20 in.	18 in.	$7.25 ea.	6 for $39.30

QUANTITY DISCOUNT. On 50,000 Bands or over 5%; 200,000 or over 10%, f.o.b. Chicago or East Walpole, Mass.

BIRD & SON, inc. Established 1795

PRICES — QUANTITIES — WEIGHTS

	SIZES	1½ x 1½ x 2½	1¾ x 1¾ x 2½	2 x 2 x 2½	2 x 2 x 3	2½ x 2½ x 3	3 x 3 x 3	4 x 4 x 3	4 x 4 x 4
PRICE PER M	VB-10	3.70	4.00	4.55	5.05	6.00	6.90	9.00	11.25
	VB-0	3.85	4.15	4.65	5.35	6.05	7.05	9.25	11.60
	VB-H		5.45	5.80	6.90	7.65	8.50	10.45	12.90
VITA-BAND 10	QUANTITY PER CASE	2M	2M	2M	2M	2M	1M	500	500
	WEIGHT PER CASE	33 lbs	38 lbs	42 lbs	51 lbs	63 lbs	37 lbs	25 lbs	33 lbs
VITA-BAND 0	QUANTITY PER CASE	2M	2M	2M	2M	2M	1M	1M	1M
	WEIGHT PER CASE	21 LBS	24 LBS	27 LBS	32 LBS	41 LBS	24 LBS	32 LBS	42 LBS
VITA-BAND H	QUANTITY PER CASE		1M	1M	1M	500	500	500	500
	WEIGHT PER CASE		26 lbs	30 lbs	36 lbs	22 lbs	26 lbs	35 lbs	46 lbs

Prices higher in Rocky Mtn., Pacific Coast, Texas and Gulf State areas.

S-1427 IMPROVED NEPONSET PAPER FLOWER POTS. The famous pot with a new use. A waterproof pot that can be used for growing plants, especially in tbe greenhouse where they have to stand continual watering from six to eight weeks. The ideal pot for transplanting and shipping. Unbreakable and much lighter in weight.

Size, inch	Per 100	Per 1000, F.O.B. New York	Per 1000, F.O.B. Chicago	Original crates hold	Gross wt. of 1000 pots about
2	$0.90	$ 8.60	$ 8.60	1,000	10 lbs.
2¼	.95	8.60	8.60	1,000	12 lbs.
2½	1.10	8.70	8.70	1,000	16 lbs.
3	1.50	9.15	9.15	1,000	25 lbs.
3½	1.65	12.20	12.20	1,000	35 lbs.
4	1.80	14.70	14.70	500	42 lbs.
5	2.50	18.15	18.15	500	66 lbs.
6	3.00	22.25	22.25	500	96 lbs.

SEED FLATS

S-1409 Made from clean Pecky Cypress, knocked down, put up in bundles of ten flats each.

	Dimensions	Bundle of 10
No. 3	21½x14x2¾ in.	$5.50
No. 3-A	21½x14x3¾ in.	5.95
No. 4	24 x15x2¾ in.	6.20
No. 4-A	24 x15x3¾ in.	6.75

WOOD VENEER PLANT BANDS

S-1504 Used by the largest growers for vegetable plants, perennial plants, carnations, snaps and stocks. For transplanting in greenhouse or outdoors.

Packed 1000 to ctn.	Weight per 1000	Price per 1000 F.O.B. Chicago	Price per 1000 F.O.B. Dongola	With bottoms F.O.B. Chicago	Witb bottoms F.O.B. Dongola
1¾x1¾x2½	32 lbs.	$5.25	$4.70	$ 7.80	$7.30
2 x2 x2½	35 lbs.	5.35	4.80	8.35	7.40
2½x2½x2½	37 lbs.	5.65	5.10	8.70	7.70
2 x2 x3	40 lbs.	5.75	5.10	8.70	7.70
2½x2½x3	43 lbs.	6.25	5.50	9.70	8.20
3 x3 x3	62 lbs.	6.85	5.90	10.10	8.50
3 x3 x4	65 lbs.	7.70	6.10	10.60	8.90
4 x4 x4	70 lbs.	8.20	7.10	12.20	10.10

Prices Subject to Change

FLOWER TUBS

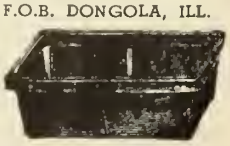
S-1433 "Richmond Style." These are made of finest fir lumber, securely bound witb welded wire hoops. They are nicely painted green, paint of best oils. Florists will find them ready sellers where a substantial yet attractive tub of moderate price is required. Prices F. O. B. Cbicago. Prices subject to cbange witbout notice.

Inside top Dia.	Deptb Inside	Price Each	Per Doz.
7 in.	6 in.	$1.25	$13.80
8 in.	8 in.	1.35	15.00
10 in.	9 in.	1.75	19.80
12 in.	11 in.	2.35	26.40
14 in.	13 in.	3.25	37.20
16 in.	15 in.	3.95	44.40

S-1500 F.O.B. DONGOLA, ILL.

PANSY BASKETS

Price, 1 qt. size, 500 for $15.00; 1000, $28.00. Price, 2 qt. size, 500 for $17.00; 1,000 for $32.00; 3 qt. size, 500 for $18.00; 1,000 for $34.00.



S-1911 SIEVES. For sifting soil 18 inches in diameter, all sizes mesh from ⅛ to ½ inch. Each, $2.50.

For Greenhouse and Garden Irrigation

S-959 SWANITE REINFORCED PLASTIC GARDEN HOSE. Single Braid, #1867 full ⅝ inch green, light-weight. Does not kink. Won't fade, crack or rot or sun-check; with full nickel-plated, maxivolume coupling. Will withstand highest pressure. Guaranteed for ten years. 50 ft. length. Retails $13.75; each $10.18; in std. pkgs. of 5 lengths, ea. $9.25.

S-917 VAUGHAN'S ¾ INCH WATER HOSE. This is the finest grade of hose obtainable at this time. This is a two braid hose and is suitable for garden and greenhouse use. Price, 26c per foot. Couplings, 60c per set extra. This hose can be furnished in any length.

S-927 SWAN DOUBLE BRAID GREEN GARDEN HOSE NO. 127. Full ⅝ in. This hose is guaranteed for 10 years. Has smooth, tough inner tube and 2 braids of heavy rayon cords. A beautiful green cover of wear resisting Neoprene. Equipped with nickel plated maxi-volume coupling. Will not burst under 800 lb. water pressure. 50 ft. only weighs 16 lbs. Easy to handle. 50 ft. length retails for $11.95, each, $8.75; in std. pkg. of 5 lengths, ea. $7.95.

S-928 MODEL 60 GREEN PLASTIC GREENHOUSE HOSE. A full ¾ inch diameter. This hose delivers a large volume of water yet is light, flexible and easy to handle. Equipped with heavy-duty solid brass couplings. Has octagonal nut which is easy to tighten. Not harmed by chemicals or insecticides. Ideal for greenhouses or wherever lots of water is needed. 50 ft. lgth., each $9.20, in std. pkgs. of 5 lgths., each $8.35; 75 ft. lgth., each $13.60, in std. pkgs. of 3 lgths., each $12.35.

S-960 No. 2150 SWANSEAL green plastic full ½ inch, made of the finest all plastic material available. Will not fade, crack, mildew or sun-check. Guaranteed for 10 years. 25 ft. lengths retail at $4.65, ctn. of 5 lengths for $15.50, 50 ft. lengths retail at $7.50, ctn. of 5 lengths $25.00.

HOSE COUPLING

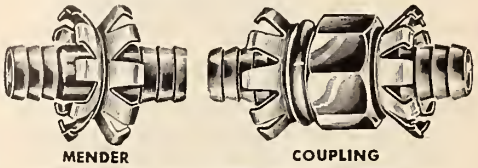
S-911 IMPROVED EVER-TIGHT. No more waste of time, just press the lever, instant tight connection. A great time saver, a coupling that every greenhouse should be equipped with. Price, complete, 75c; doz., $8.00. Faucet ends per doz. $4.20.

ROSS SQUARE SPRAY HEADS FOR SCIENTIFIC SPRINKLING

It sprinkles a square, making it easy for you to install your own underground system, at a very low cost. Threaded for ½ in. pipe, capacity 3¼ gals. per minute. Has a slotted adjusting screw to control the area of the spray. **S-957** 54A. Price, per doz., $6.80. **S-952** 2A. ½ or **S-951** 4A. ¼ circle heads. Doz., $6.80.

BRASS CLINCHER HOSE COUPLING

S-902 Tight grip, will not leak, easily applied. The heavily plated fingers grip the hose tightly and make a leak-proof connection. They are easily attached. Each 35c; doz., $3.60.



MENDER COUPLING

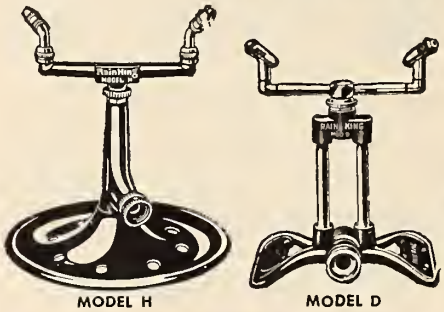
S-903 BRASS CLINCHER HOSE MENDER. Price doz., $1.60.

HOTHOUSE SPRINKLER

S-934 All brass, distributes water evenly; ¾ inch connection; 3 inch face, each, 90c; doz., $8.00; 4 inch face, each, $1.10; doz., $10.40.

JUSTRITE BRASS HOSE NOZZLE

S-936 For lawn and garden, can be changed from fine spray to stream. ¾ inch, each $1.45; doz., $11.60.



MODEL H MODEL D

RAIN KING SPRINKLER MODEL H

S-949 Chrome plated. Adjustable for coarse or medium shower. Can be used for revolving or stationary sprinkling by simply turning lock wheel. 11¼ in. tall; 9¼ in. from nozzle to nozzle. Retail each, $8.50, 6 for $34.02, per doz., $63.72. Shipping weight, 5 lbs. each.

RAIN KING SPRINKLER MODEL D

S-947 Can be adjusted to operate slow or fast. Will operate on any water pressure. Retail each, $6.50, 6 for $25.98, per doz., $48.72. Shipping weight, 4 lbs. each.

MODEL K ROSS ROOT FEEDER

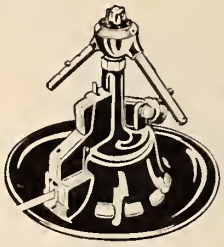
RAIN KING SPRINKLER MODEL K

S-945 Automatic, new, sensational sprinkler that you can set instantly to sprinkle any size circle 5 to 50 ft. by simply turning the button on top of the sprinkler. Retail each, $9.25, 6 for $36.96, per doz., $69.36. Shipping weight, 5 lbs. each.

ROSS ROOT FEEDER

S-794 Irrigates and feeds at the same time. Pointed tube easily thrust into ground to reach root area. With 12 nutrient cartridges complete, $3.95, 6 for $18.60, Doz., $35.90.

S-797 Acid Cartridge. or **S-798** Nutrient. Extra cartridges, pkg. of 12 cartridges $1.00, doz. pkgs. for $7.20.

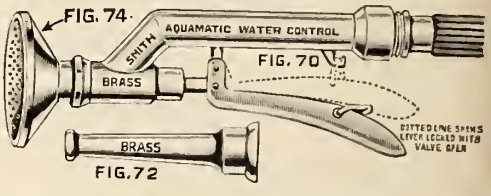


TRAVELING SPRINKLER Model K-20

S-948 Fully automatic, can be set to sprinkle areas 5 to 50 feet as it travels, straight or around corners. Will travel up to 100 feet. Retail each, $39.50, each $26.30. In lots of three or more, ea. $24.69 Shipping weight 9 lbs.

S-972A TELESPRAY. Sprinkler that works like a telescope. Attach hose, turn on water, and 'it' extends to a sprinkling system 24 feet long. By varying water pressure you control coverage from a 6-inch strip to a 40-foot width. Made of aluminum alloy, it won't rust, needs no maintenance, has no moving parts, weighs only 2¼ lbs. Retail price $9.95. Three for $19.90.

S-972 JUNIOR model in 3-foot unit—extends to 12 feet. Material and operation exactly the same as regular model. Retail price $6.95. Three for $13.90.



AQUAMATIC SHUT-OFF

S-966 ¾ in. hose connection. Complete as shown above. Price, each, $4.50. Less fig 72 $4.00.

ELKAY NOZZLE

S-912 From a powerful jet to a softest mist at the tip of your finger. Precision built. Non-corrosive instant shut off. Retail each, $1.50; doz., $12.00.

S-946 SUNBEAM RAIN KING. Model N-1A Nozzle, Retail $1.50; Doz., $12.33. In lots of 48 or more $11.70 per doz.

S-975 This light weight, yet durable tube, makes it easy to apply water to the garden soil exactly where needed, without wetting foliage or flowers, and without washing soil away from surface roots. Each, $3.50; 6 for $15.00; dozen, $28.80.

SOIL SOAKER

S-968 Irrigation hose for deep soaking. No. 0—12 ft., each, $1.20; six for $6.48. No. 1—18 ft., each, $1.55; six for $8.64. No. 2—30 ft., each, $2.35; six for $13.32. No. 3—50 ft., each, $3.75; six for $21.60.

AVON LAWN AND GARDEN SPRINKLER MODEL No. 950

S-901 This type sprinkler is highly recommended by expert landscapers and nursery men. Its unique principle of oscillating back and forth enables one side of area covered to absorb while the other side is being irrigated. This principle prevents washout or uneven distribution. Size 21" x 6½" x 7", mounted on sled-like frame that moves with ease by pulling hose to change its position. Covers about 1500 sq. ft. or more depending on water pressure, in a rectangular area 30 ft. on either side and 30 ft. in width. Price retail each. $12.95; ea. $9.75; 3 for $27.00; six for $46.62.

PROFESSIONAL WATERING POTS

For Florist's Nurseries, Seed Growers and Estates.

S-908
Round, heavy watering pot with long spout and two roses.

S-904

S-905 6 qt. size, $8.50. **S-907** 10 qt. size, $9.50.
S-906 8 qt. size, $9.00. **S-908** 12 qt. size, $10.25.

WATERING POT

S-904 2 quart home size. Pastel green with rose design, for watering house plants. Each, $1.85; dozen, $18.00; six for $10.00.

NATURAIN PERFORATED PIPE

S-942 Made of durable aluminum and stainless steel. Each section 5 ft. long, weight less than a pound. Ordinary pressure will throw water 20 feet. Extra 5 ft. lengths can be connected with a twist of the wrist. Primary unit with hose connection, retails at $2.95; ea. $2.10; per dozen, $23.60. **S-942A** Secondary unit, retails at $2.75; ea. $2.00; per dozen, $22.00. With ordinary pressure five units can be used.

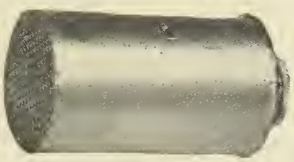
S-913 SUPPLEX FLEXIBLE SPRINKLER. Triple tube with storage reel. Provides gentle evenly distributed rainfall over a rectangular area up to 50'x20'. 25 ft. lgth. retails at $3.98; packed 12 to a carton, per carton $31.84. 50 ft. lgth. retails at $5.98; packed 6 to a carton, per carton $23.93.

S-976 SOAKER-SPRAY. Resinite Vinyl-Plastic. New dual use sensation, it sprays, it soaks, it's guaranteed. Put up in display cartons. One size per carton. 20 ft. retails at $2.35, display carton of 6, $9.40; 35 ft. retails at $3.55, price display carton of 6, $14.20.

NO. 400 WATER BREAKER

S-974 This breaker is the answer to the florist's problem for an all purpose watering gadget. It will do most any watering job. This breaker has 400 1/16 inch holes in it. The four hundred tiny streams of water are concentrated in a small area, consequently speeding your watering job. Price each, $1.45, three for $4.20, plus postage.

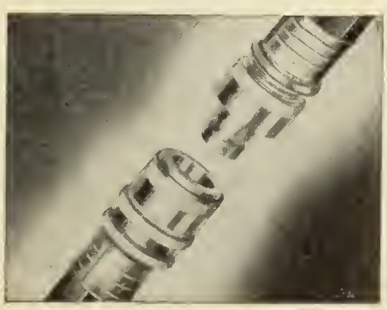
The "400" Water Breaker



S-943 REX AQUA-FLO. Water Breaker. The king of all water breakers. Made of cast aluminum with snap rings to make it possible to replace screens. Each, $3.50, 6 for $18.00, plus postage.

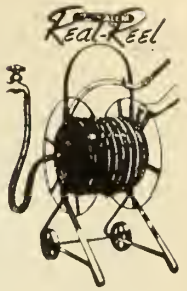
ROSS No. 10 SPRINKLER

S-953 Is preferred by growers and home owners; capacity seven gals. per minute. Each, $1.40; doz., $11.20, plus postage.



S-967 THE NEW CRESCENT HOSNAP COUPLING. Screwing of couplings and twisting of hose eliminated. This coupling operates by merely pushing in. It locks quickly. Can be removed simply by pushing down collar. Made of brass. Retail each at $1.25; doz., $10.50; 3 doz. lots, doz., $10.00.

REAL-REEL



S-963 The only portable reel permitting water to run through the reeled-up hose. Equipped with 5 ft. of accessory hose and connection to attach to hydrant as illustrated. Saves time and work. The hose does not need to be removed from the reel to connect it to the water current. Made of the best steel, very durable, with rubber tires. Price, each, $13.95 in lots of 4, $11.00 each. Retails at $16.50.

HOZON FERTILIZER APPLICATOR

(Fertilizes as you Sprinkle)

S-915. Make fertilizing as easy as sprinkling your lawn. Fertilize through your hose. Mixes the right amount of ammonium sulphate, nitrate of soda, potash or any soluble fertilizer with the water with which you sprinkle your lawn. One end screws into the faucet, the other end takes the hose, the small tube drops into the bucket of fertilizer. Made of die cast metal. Price, $1.85; postpaid, $2.00.

LINCOLN PARK OR BUTTERFLY

S-935 Cheapest and best sprinkler made. Each, $1.10; doz., $10.00.

S-938 Mounted on stand: 2-foot, $2.35 each, 6 for $11.00; 4-foot, $2.65 each, 6 for $13.00; 6-foot, $3.75 each, 6 for $17.00.

All prices subject to change without notice.

S-929 RESINITE TWIN TUBE Flexible Sprinkler. 25 ft. Covers area 20 ft. wide by 25 ft. long at normal pressure. Couplings at both ends. Price retail each, $3.85, 6 for $15.42, 12 for $27.72; 50 ft. price retail each, $5.85, 3 for $11.70, 6 for $21.06.

SCOLLAY'S FAMOUS FLORISTS' SPRINKLER

WE ARE GENERAL WESTERN AGENTS

S-964 None better for floral work. Beware of cheap imitations. Made of best quality of rubber and will outwear any other sprinkler on the market. Large size, plain top, No. 1, 6 in. high, each, $1.50; 3 for $4.35; doz. $16.80.

S-962 PLANT FOUNTAIN SPRINKLER. For sprinkling seedlings, plants and clothes. 8 oz. capacity. Retails for $1.50 each; 6 for $6.00; doz., $10.80.

Sprayers Knapsack, and Power

DOBBIN'S BIGHEAD SPRAYERS

S-734 5¼ diameter opening. Easy to fill, drain and clean. Positive quick sealing device. Equipped with patented self-lubricating pressure seal valve plunger. More air per stroke. Brass shut-off with trigger quick spray lock. Universal nozzle, sprays at any angle. Will handle all spray solutions. 4 gallon capacity.

No. 44G. Galvanized tank. Each, $11.95.

S-737 Stainless steel, Bighead 4 gallon, sprayer. Each, $22.50.

SMITH'S SPECIAL No. 24 G. O. COMPRESSED AIR SPRAYER

S-714 A durable low priced sprayer, has a funnel top, made of heavy steel, tank as illustrated. 3½ gallon capacity. Galv., $9.25; Brass, each, $15.35.

HUDSON No. 220 BUGWISER SPRAYER

S-718 Ideal for home, lawn and garden spraying. With safe-T-lock. 2¼ gal. Galvanized welded tank. Weight 7¼ lbs. Each $6.50 Three for $16.56.

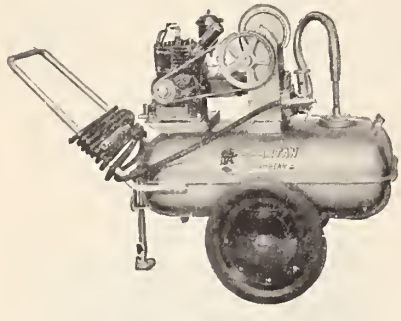
CHAMPION KNAPSACK SPRAYER

All purpose sprayer. Tank shaped to fit man's back. Holds 4 gals. of fluid. Net weight 12 lbs. Adjustable brass nozzle permits either fine mist or 35 ft. stream.

S-717 Galvanized, price each, $22.95.

S-716 Brass, price each, $25.45.

S-711 Stainless Steel, each $36.00.

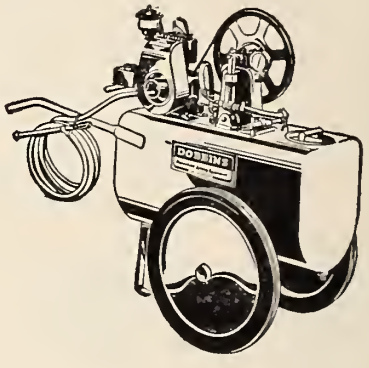


BEAN SPARTAN POWER SPRAYER

S-776 A dependable sprayer. Pressure 200 lbs., capacity 3 gallons per minute. Tank 15 gallons, width 20 inches, complete with Defender spray gun and 25 ft. of hose. Model 3, Briggs and Stratton Gas Engine, $212.50. Model 3M with ½ H.P. electric motor, $218.50.

ONE-MAN PRESSURE SPRAYER

S-775 JIM DANDY CART SPRAYER. The king of all sprayers. The all around sprayer for lawns, vegetable crops, trees, shrubs, etc. Also a hand sprayer for factory or indoor use. Easily wheeled around. Equipped with balloon tires and 12 ft. of ¾ inch high grade spray hose and automatic shut-off nozzle Galvanized, price each, $31.50.



UTILITY PORTABLE POWER SPRAYER

A portable high-pressure light weight spray outfit. Handles all spray jobs for the individual owner and commercial grower. Brass pump with hardened stainless steel valve. Capacity, 1½ gallons per minute. 25 gallon steel tank, 1½ H.P. engine. 12½ feet of high pressure hose and adjustable spray gun.

S-732 No. 4240R with rubber tire wheels. Each, $185.00

G. S. MASTER SPRAYER

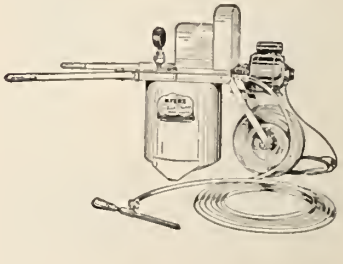
The finest sprayer for applying shading compounds, whitewashing and all types of insecticides, flower and vegetable gardens, fruit and ornamental trees. Sprays from a fine mist to a 35 ft. spray stream. Made of 100% brass throughout.

S-747 Jr. Model each, $5.95.

S-746 Master Model with adjustable nozzle and 45 degree brass extension. Each $7.95.

HAYES No. 6 SPRAY GUN

S-755 All Purpose Sprayer. Makes 6 gals. of mixed spray material at a time. Sprays liquid and most wettable powders, up, down and sideways. Attach to your garden hose. Gives you the efficient performance of heavy, expensive equipment. Operates on water pressure from 30 to 75 lbs. No moving parts to wear out or break. Retails, each, $9.95; six for $39.80.



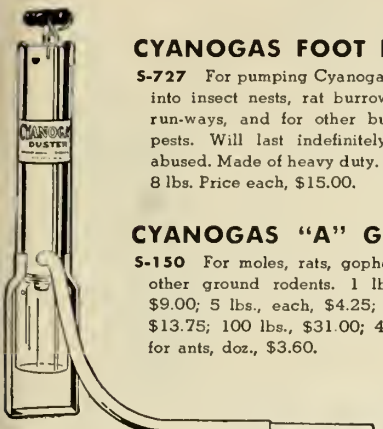
MYERS SILVER PRINCE POWER SPRAYER

Perfectly balanced, 2 gallons per minute. Tank 12½ gallons, width 16 inches. Complete with spray gun and 15 ft. of hose.

S-778 No. 4502MR with ½ H.P. electric motor, $189.20.

S-777 No. 4502ER with ¾ H.P. gasoline engine $181.20.

Sprayers and Dusters



CYANOGAS FOOT PUMP

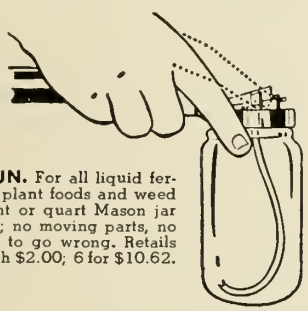
S-727 For pumping Cyanogas A-Dust into insect nests, rat burrows, mole run-ways, and for other burrowing pests. Will last indefinitely if not abused. Made of heavy duty. Weight, 8 lbs. Price each, $15.00.

CYANOGAS "A" GRADE

S-150 For moles, rats, gophers, and other ground rodents. 1 lb., doz., $9.00; 5 lbs., each, $4.25; 25 lbs., $13.75; 100 lbs., $31.00; 4-oz. tins for ants, doz., $3.60.

BLIZZARD COPPER CONTINUOUS SPRAYER

S-800 Very durable, seamless brass pump, solid copper quart tank with adjustable nozzle for straight and underleaf spraying. Quart size, each, $4.75; six for $24.80.



S-750 GRO-GUN. For all liquid fertilizers, soluble plant foods and weed killers. Any pint or quart Mason jar will fit this gun; no moving parts, no valves, nothing to go wrong. Retails each $2.95; each $2.00; 6 for $10.62.

INSECT-O-GUN

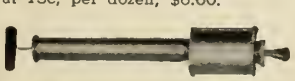
S-773 This is a 3 gallon Lawn and Garden Insecticide Sprayer. The most compact, simple and easy to use sprayer available. Just put insecticide in the Pint Jar, attach to the Garden Hose, and the water pressure does all of the work. Eliminates pumping and carrying a heavy tank. Recommended for applying 2 4-D for exterminating weeds. Retails at $5.95; each $4.15; 3 for $10.71.

PNEUMATIC HAND SPRAYER

S-784 PNEUMATIC Galvanized continuous one quart size with two nozzles for straight and underleaf spraying. Each, $1.85; dozen, $16.20.

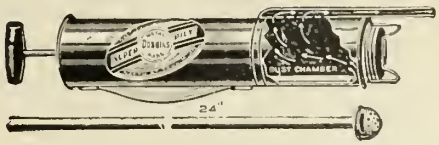
S-786 PNEUMATIC TIN HAND SPRAYER. Same as above, each, $1.65; dozen, $14.00.

S-735 TIN HAND SPRAYERS. Full quart size, retails at 75c; per dozen, $6.00.



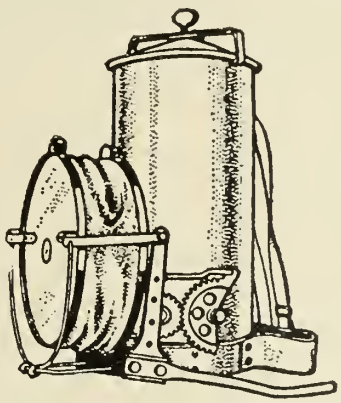
CHAPIN HAND DUSTER No. 594

S-722 Retails, each, $1.45; six for $6.00; doz., $11.40.



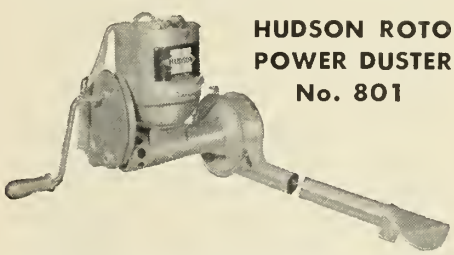
DOBBIN'S IMPROVED HAND DUSTER

S-731 A uniform discharge down to the last particle of dust. For all garden and field crops. Self-lubricating pressure seal valve plunger. Capacity, 1 lb., equipped with two-way dust cap. No. 132 Duster. Each, $2.00; 6 for $10.50.



THE AMERICAN BEAUTY DUSTER

S-701 The most powerful hand duster made. Has a large, powerful bellows that throws dust to the top of twenty-five foot trees. A man will average eight acres per day on trees. Dusts truck crops at an average walking speed, and dusts the under side of leaves. Has a spiral agitator that crushes and grinds the dust and feeds directly into the moving air blast; does not choke or clog. Has an efficient regulator for discharge control. It is considered the standard of efficiency by all authorities. Price, $32.50.

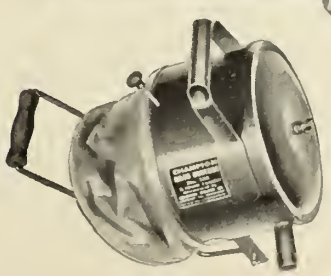


HUDSON ROTO POWER DUSTER No. 801

With constant agitator in hopper. Has 3-way action principle. Large opening for easy filling. Holds about 8 lbs. of average density dust.

S-756 Complete with three 15 inch tubes and nozzle. Weight about 16 lbs. Each $21.00.

756-A Model 4859 Y attachment for 2-nozzle dusting, flexible steel tubes with nozzles. Weight 2 lbs. Each, $2.85.



S-730 MODEL 103 CHAMPION hand duster, for home gardens, shrubs and small trees. About 8 lbs. capacity. Retails each, $9.85; each $7.95; three for $19.70.

PLANT HORMONES

S-291 ROSETONE. A proven combination of Hormones and Vitamins. Insures the success of your roses. Soak roots of bushes in Rosetone before planting. Water your established rose bushes for better growth. ½ oz. package retails at 25c, per Display Carton of 24 packages, $4.00; 3 oz. retails for $1.00, per Display Carton of 12, $8.00.

S-452 VITAMIN B-1 TABLETS. Vitamin B-1 Tablets, the famous Plant Magic brand, containing extra growth-substances. The proved transplanting aid. Also for flower-plant feeding and for fortifying vitamin-deficient soils. Garden magazine articles report amazing results. Each tablet makes 2 to 7 gal. Packet retails, 25c; display card of 18 pkts.—$2.70. 100 tablet bottle, 70c; doz. bottles, $5.00.

ROOTONE
PATENTS PENDING

S-287 ROOTONE with Fungicide stimulates the natural tendency for roots to form on slips or cuttings. Rooting takes place in a much shorter time, heavier root systems are formed and fewer cuttings die from disease. Newly added fungicide controls damping-off and other soil-borne diseases. Price, ¼-oz. pkt., 25c; doz., $2.00; 2-oz. jar, enough to treat 3,000 cuttings, $1.00; doz., $8.00; 1-lb. jar will treat up to 30,000 cuttings, $5.00.

S-289 ROOTONE No. 10. For slow to root evergreen cuttings. 2 oz., each, $2.00; 1 lb., each, $10.00.

S-327 TRANSPLANTONE. For treatment of transplants of all kinds. It contains the root forming hormones, vitamin B-1 and other members of the vitamin B complex, which are important in plant growth. ½-oz. pkt., each, 25c; doz., $2.00; 3 oz., $1.00; doz., $8.00; 1 lb., $4.00.

S-197 FRUITONE. The hormone spray for stopping pre-harvest drop of apples and other fruits. Also reduces drop of flowers and leaves. 2, 5 oz. pkt. dozen, $2.00, retails at 25c per pkt.; 2 oz. (makes 25 gal. spray); $1.00; doz., $8.00; ½ lb., $1.75.

S-218 HORMODIN POWDER. Combination package. No. 1, 2, 3, in one carton. Price 75c; doz., $6.00.

S-215 No. 1 Powder, 1¾-oz. tin, each, 50c; lb., $3.00.

S-216 No. 2 Powder, 1¾-oz. tin, each, 75c; 1 lb., $4.50.

S-217 No. 3 Powder, 1-oz. tin, each, $1.00; ½ lb., $4.50.

S-1924 AIRWRAP. This kit will produce large plants in a few weeks. Amazing, easy and inexpensive for trees, vines, ornamentals and shrubs. Kit consists of 8 sheets of Airwrap and 8 ties. Retail at $1.95 per kit; each $1.50; 6 for $8.00; dozen kits, $15.00.

AERO WHITE SNOW

5-315 A bomb that makes aero snow flakes. Just press the button to release a decorative snow storm that produces a realistic intense white covering for Christmas trees and wreaths. Easy to use, easy to remove. Regular size, 6 oz., retails for 69c; per carton of 24, $11.20. Large size, 12 oz., retails for .98c; per carton of 12, $8.00.

INSECTICIDES

S-122 ARSENATE OF LEAD. The standard spray or dust for quick, dependable control of practically all leaf-eating (not sucking) insects. 1-lb. carton, 60c; doz., $5.85; case of 24, $11.04; 4-lb. bag, $1.50; 48 lbs., $13.68.

S-127 BORDEAUX MIXTURE. (Dry.) The best fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab or other fungoid diseases on fruits and plants. One pound will make 5 gallons liquid. Lb., 50c; doz., $5.20; Carton of 24, $9.60; 4 lbs., $1.20; case of 12, $11.60.

S-150 CYANOGAS "A" GRADE. For moles, rats, gophers, and other rodents. 1 lb., doz., $9.00; 5 lbs., each, $4.25; 25 lbs., $13.75; 100 lbs., $31.00; 4-oz. tins for ants, doz., $3.60.

S-151 CYANOGAS CALCIUM CYANIDE "G". Greenhouse fumigant. Aphids, white fly, thrips, soft scale, and mealy bug and control for crop-destroying rodents. 5 lbs., $4.25; 25 lbs., $13.75; 100 lbs., $31.00. Write for leaflet.

S-294 50% MALATHON SPRAY. Safest of the phosphate insecticides. 1 oz. retails 50c ea., carton of 2 dozen $8.00, 4 oz. retails $1.25 ea., dozen $10.00, pt. each $3.00, qt. each $5.25, gallon each $14.50.

S-188 D.X. PYRETHRUM-ROTENONE CYCLONENE SPRAY. A concentrated plant spray containing Rotenone-Pyrethrum-Cyclonene in an active glyceride base. Controls sucking and chewing insects. Price 1 oz. packed 24 to case, $5.04 per case; 4 oz. retails at $1.00; per carton of 12, $7.20; 8 oz., packed 12 to a case, price per case, $12.60; quarts, $5.50; gallon each, $12.00; 5 gallons each, $48.00.

S-347 FLOWERS OF SULPHUR. Dusting grade. 10 lbs., 95c; 50 lbs., $3.00; 2 bags for $5.75.

S-295 GRASSELI S. S. 3 COMBINED SPREADER AND STICKER. Designed for use with agricultural sprays. Pt., $1.20; gal., $7.95; 5 gals., $37.50.

S-311 CHELATED IRON. For combating iron chlorosis troubles on azaleas, gardenias, hydrangeas and roses and occasionally on other plants. 1 lb. each, $2.25, 12 for $18.00; 5 lbs. $10.00 each, 6 for $40.00; 10 lbs. $15.00; 100 lbs. $125.00; 250 lbs. $300.00; 100 lbs. or more Prepaid.

S-222 LINDANE ISOTOX SPRAY. Containing 25% Lindane. For fastest fly control, kills flies immediately. Kills flies resistant to DDT. May also be used to control Scab or Sarcoptic Mange on Dairy Cattle, Beef Cattle, Sheep and Hogs. Also effective around the house on flies, roaches, ants, mosquitoes and other insects. 1 lb. can, price each $2.65; per case of 12, $22.80; 4 lb. can, each, $10.40, per case of 4, $29.60.

S-178 MARLATE METHOXYCHLOR 50% INSECTICIDE. Active Ingredient: Methoxyclor Technical 50% (Equivalent to 44% 2, 2-bis) (paramethoxyphenol) 1, 1, 1-Trichlorethane and 6% other isomers and reaction products. 8-oz. tin, doz., $6.00; 4 lbs., bags, each, $3.45; per carton of 12, $33.20.

S-234 METHYL BROMIDE. An ideal fumigant for many purposes. For seeds, bulbs and many greenhouse plants. Per lb. can, $1.15; per case of 24 cans, $18.00.

S-238 NAPTHOLENE FLAKES. Price 10 lbs., $2.75; 25 lbs., $6.25; 100 lbs., $20.00.

S-243 NICO-FUME HOLDER. For 1-lb. size pressure fumigator. "Adaptor" is included for ½-lb. size. $1.85.

S-244 NICO-FUME LIQUID. For fumigating or spraying; contains 40% nicotine. 1 lb. can $2.50; 2 lbs., $3.45; 8 lbs., $11.95; 40 lbs., $53.75.

S-245 NICO-FUME PRESSURE FUMIGATOR. Put up in ½-lb. and 1-lb. cans, powder is now burned under pressure, giving better control of insects. The cans have a sparkler for lighting the powder. ½-lb. cans, 50c; six for $2.60; doz., $4.50; 1-lb. cans, 80c; six for $4.50; doz., $8.55.

S-253 OVOTRAN WETTABLE. A new miticide for control of spotted mite on roses and certain mites on shade trees and ornamental shrubbery. 1 lb. bag, $1.85; 4 lb. bag, $6.00 each, 3 bags for $17.25.

S-262 PLANTFUME NO. 103 SMOKE GENERATORS. For greenhouse use only. Active ingredient 15% Tetraethyl Dithiopyrophosphate. 5,000 cu. ft. fumigator, $10.50 per carton of 36; 20,000 cu. ft. fumigator, $12.00 per carton of 12.

S-310 P-40 IS TWO PER CENT SODIUM SELENATE and ninety-eight per cent carrier (superphosphate in the present material). It is a dilute material. Three pounds treats only 100 square feet of bench area. 25 lbs., $8.50; 100 lbs., $31.00.

S-176 PARATHION 15% WETTABLE POWDER. Good control of Cyclamen Mite, Red Spider, Thrips, Aphids, and various nematodes. Price per 1 lb. bag, $1.00; 4 lb. bag, $3.00; 50 lb. drum, $32.50.

S-260 PARATHION DUST 2%. Ideal for control of most ornamental insect pests. Specially adapted for use in cheese cloth houses and outdoors. Price 25 lb. drum $4.50; 50 lbs., $7.50.

S-264 PINE TAR. For tree surgery. Qt., 75c; gal., $1.75.

S-309 PURE SODIUM SELENATE is a granular powder, very concentrated: One pound treats 1,800 square feet of bench area. This material is completely water-soluble. Per lb. $9.00.

S-1916 RESPIRATORS. For mild fumigating and dusting. Each, $3.95.

S-298 SCALECIDE. Dormant spray oil safest spray for fruit and ornamental trees. Qt. $1.15; gal. $2.75; 5 gals. $9.30; 55 gals. $53.00.

LETHALAIRE MOST RELIABLE AEROSOL BOMBS

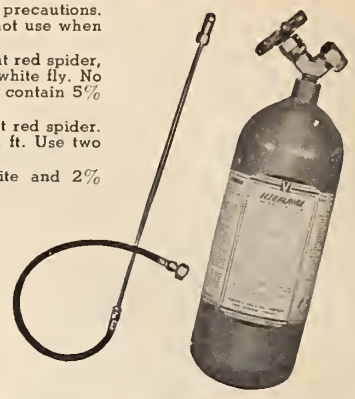
S-345 PARATHION No. G-54. One of the most effective controls known for red spider, mealy bugs, aphids, thrips, leaf rollers, white fly, cyclamen mite and many other greenhouse pests. 4 lb. bomb contains 10% Parathion. Very toxic, be sure to use recommended precautions. One bomb treats 200,000 cu. ft. of greenhouse space. Do not use when sulphur is present; may cause damage.

DITHION No. G-57. Valuable in control of Parathion-resistant red spider, as well as aphids, and certain species of mealy bugs and white fly. No injury noted on roses when sulphur is present. 4 lb. bombs contain 5% Tetraethyl di-thio pyrophosphate and treats 200,000 cu. ft.

ARAMITE No. G-60. Especially effective against the resistant red spider. 4 lb. bomb contains 10% Aramite and treats 200,000 cu. ft. Use two applications one week apart.

ARAMITE & LINDANE No. G-61. Contains 10% Aramite and 2% Lindane for use on greenhouse ornamentals only. Recommended for the control of two spotted spider mites, various species of aphids, thrips, mealy bugs and white flies on roses, chrysanthemums and carnations. One 4 lb. cylinder treats 200,000 cubic feet of greenhouse space.

MALATHION No. G-62. Contains 15% 0,0-dimethyl dithiophosphate of diethyl mercaptosuccinate (technical Malathon). Recommended for the control of the red spider (non resistant strains), various species of aphids, thrips, mealy bugs and white flies on roses, carnations and chrysanthemums. One 4 lb. cylinder treats 200,000 cu. ft.



PRICES OF BOMBS

No.	Type	Each	Deposit
G-53	DDT	$ 8.50	$3.75
G-52	TEPP	6.50	3.75
G-54	Parathion	8.00	3.75
G-56	HETP	6.50	3.75
G-57	Dithion	8.00	3.75
G-60	Aramite	12.00	3.75
G-61	Aramite & Lindane	12.50	3.75
G-62	Malathion	9.75	3.75

NOTE: The deposits on the bombs are refunded when they are returned to us prepaid. Orders of 12 or more bombs will be shipped prepaid, and empties may be returned in quantities of 12 by freight collect, direct to factory or prepaid to us in smaller quantities.

APPLICATORS

Special applicators must be used with these Aerosol Bombs. Applicator has universal coupling to fit any bomb.

S-1912 No. 20 24 inch applicator $6.50 each
S-1912 A No. 30 36 inch applicator 6.75 each
S-1912 B No. 40 48 inch applicator 7.00 each

S-1907	Mine Safety Industrial Gas Mask	Each	$29.00
S-1905	Extra GMC-1 Canisters	Each	4.00
S-1906	War surplus navy mask with new G-M-C Canister	Each	8.35

S-325 TOBACCO DUST. Regular Grade. Fine for dusting. 1 lb. package, each 30c, carton of 12, $2.40; 5 lb. packages, each 80c; per dozen, $6.40; 10 lbs., each, $1.35, per carton of 6, $5.40; 25 lb. bag for $2.25; 100 lbs., $5.25.

SOIL AND GREENHOUSE FUMIGANTS

S-171 DOWFUME MC-2. TRIAL KIT. A fumigant used under a gasproof tarpaulin for treatment of soil to control certain weeds, grasses, damping-off organisms, nematodes and insect pests. Leaves no harmful residue in soil. Contains 98% Methyl Bromide and 2% Chloropicrin. Trial kit includes 4 lbs. MC-2 1 pc. Visqueen Film 8 ft. x 16 ft. and 1 Jiffy Applicator with 10 ft. tubing. Trial Kit price $12.50.

S-172 DOWFUME MC-2 LIQUID. 1 lb. can MC-2 for $1.00, case of 24 for $20.40. Jiffy Applicator, $4.00. Visqueen Film, 10½ ft. wide, 100 ft. rolls, $30.00, Visqueen Film, 13½ ft. wide, 100 ft. roll, $35.00, Visqueen Film, 16 ft. wide, 100 ft. roll, $40.00.

S-198 FULEX PARATHION FUMIGATORS. Contains nearly double the burning material which gives a much better distribution of fumes. 2,000 cu. ft. fumigators, $10.50 per carton of 24; 5,000 cu. ft. fumigators, $13.50 per carton of 24; 10,000 cu. ft. fumigators $16.00 per carton of 24; 20,000 cu. ft. fumigators, $25.00 per carton of 24.

S-201 FULEX APHID SMOKE. New Fulex greenhouse smoke fumigator for Aphids, Adult White Flies and Adult Leaf Tyers. Contains Lindane. 2,000 cu. ft. unit size, carton of 24 for $10.00; 5,000 cu. ft. unit, carton of 24 for $13.00; 10,000 cu. ft. unit carton of 24 for $16.00.

S-199 FULEX SPIDER-MITE FUMIGATOR is a simple smoke generator designed for use against greenhouse red spiders, two-spotted mites and some strains thereof resistant to parathion. 2000 cu. ft. size, per ctn. of 24, $10.50; 5000 cu. ft. size, per ctn. of 24, $13.50; 10,000 cu. ft. size, per ctn. of 24, $18.00; 20,000 cu. ft. size, per ctn. of 24, $30.00.

S-109 FORMACIDE FORMALDEHYDE DUST. Control "damping off" of seedlings. 1 lb., 85c; 4 lbs., $2.50; 25 lbs., $9.50; 100 lbs., $28.00.

S-214 VAUGHAN'S TREE PROTECTOR, PRUNING PAINT AND TREE WOUND DRESSING. Acts as a balm and repellent against insects. Protects against decay and fungus. Pints, retail $1.00 each, dozen $6.00; quarts retail $1.60 each, dozen $10.80; gallons, retail $3.50 each, carton of three $6.00.

S-332 VAPOTONE XX Insect Spray. Particularly effective against Red Spiders, Aphis, and many other insects; has been approved for use in greenhouses and on nursery stock. 4 oz. per case of 24 cans $16.00; pints per doz. $22.00; 1 gal., $12.00.

S-336 VOLCK. The Scientific Insecticide for nursery, greenhouse and garden. Controls scale, insects, mealy bug, white flies, red spiders, rust mites, aphids and thrips. 4 oz. bottles, per case of 24, $5.60; 16 oz. bottles, per case of 12, $6.00; 32 oz. bottles, per case of 12, $10.00; gallon, each $2.50; 5 gals., $8.75.

FUNGICIDES

S-119 ARASAN. 8 oz., $1.00; 2 lbs., $3.20; 10 lbs., $11.50.

S-293 CAPTAN 50-W. (Fungicide 406). For apples, peaches, cherries, roses, tomatoes, etc. Put up in 5 lb. bags. $6.00 each, 6 bags for $27.50, carton of 10 bags $46.00.

S-145 COPPER SULPHATE. Crystals. 10 lbs., $3.25; 25 lbs., $5.25; 100 lbs., $17.95.

S-341 CUPROCIDE. Yellow. An effective fungicide spray. Price, 3 lb. bag, $3.25.

S-193 FERMATE. Reliable specific for black spot on roses, leaf spot on chrysanthemums, snapdragon rust, anthracnose of tomatoes, and brown rot of cherries. Recommended for use against all fungi and mildews. 8 oz. retails 75c; per case of 24, $12.00; 3 lbs., $2.45; 6 packages for $13.50; Case of 12-3 lb. packages, $25.80.

S-221 MILDEX (ISCOTHAN) FUNGICIDE. A wettable powder for controlling powdery mildew on roses and other greenhouse crops. Combines effectively with Aramite or Santomerse 5 as a spray for both Mildew and Red Spider. 3 lb. containers, $6.30 each; 6 pkgs. for $36.00; 100 lbs. for $173.00.

S-281 MANZATE FUNGICIDE. Outstanding for control of all major fungus diseases. 3 lb. bag, $3.25. Write for prices on larger quantities.

S-138 NEW IMPROVED CERESAN. 1-lb. can, $1.45; 100 lbs., $93.50.

S-268 PARZATE FUNGICIDE. Dupont's newly developed dithiocarbamate fungicide which may be used as a spray or a dust for control of many important plant diseases. Price per 40 lb. drum, $30.00. 3 lb. pkg., $2.85; 6 for $15.60.

S-301 SEMESAN. The universal seed disinfectant and plant stimulant. Important for control of damping off of seedlings, Gladioli, and disinfection of seed bed soil, 4 oz., $1.20; doz., $9.60; 12 oz., $3.40; 25 lbs., $87.20. Write for leaflets, stating for what purpose desired. Write for leaflets on Semesan, and Semesan Bel.

S-303 SPECIAL SEMESAN. Control for brown patch, dollar spot, etc. in bent lawns. 1½ lb. ea. $4.50; doz., $39.40; 25 lbs., $52.80; 100 lbs., $205.80.

S-313 SPERGON SEED PROTECTANT. 1 oz., 50c; doz., $4.00; 1 lb., $2.50; 10 lbs., $16.00.

S-314 SPERGON WETTABLE GRADE. 1 lb., $2.25; 50 lb. drum, $38.00.

S-230 SULPHUR FOR SPRAYING. Magnetic spray. Wettable. Goes into suspension in water immediately like colloidal sulphur, at a lower cost. 4 lbs., 75c, 6 for $3.00; 100 lbs., $8.75.

S-342 ZERLATE FUNGICIDE. For control of plant diseases. Has natural adhesive and wetting qualities. Does not easily wash or weather off when applied to plants. Can be mixed with insecticides such as Arsenicals, Nicotine, Rotenone, Pyrethrum, D.D.T., etc. Price per 3 lb. pkg., $2.45; 6 packages for $13.50. Case of 12-3 lb. packages, $23.40.

Add Postage According to Weight and Zone (See Order Blank)

Items You Can Sell

Following popular insecticides are priced in quantity for your use and also in small package assortments for re-sale for home gardens.

Items below ordered in less than quantity quoted will be billed at a higher rate.

S-226 ACME ALL ROUND BOMB

SELF SPRAYER PACKAGE. A new Acme formulation or control of a wide variety of insects attacking flowers and plants both indoors and outside. The bomb should appeal to many because of its convenience. For use on such plants as African Violets, Azaleas, Begonias, Beans, Camellias, Carnations, Corn (Whorls), Dahlias, English Ivy, Geraniums, Grapes, Roses, Tomatoes, and many others.

Size	Packing Per Case	Dealer Per Case	Consumer Each
*10 oz.	12	$12.00	$1.50

S-106 ACME ROTENONE GARDEN GUARD. A combination spray for controlling sucking and chewing insects. Can be used as a dust or spray. 1 lb. handy shaker top can price, 50c; doz., $4.25; per case of 24 cans, $8.00; 4-lb. pkgs., per case of 12, $10.00.

S-101 ACME ALL ROUND SPRAY. 1 lb. package retails at $1.10, per case of 12, $8.80; 4 lb. package retails at $3.45, 6 for $14.25; carton of 12, $27.60.

S-129 ACME 5% LINDANE SPRAY. 4 oz. retails at 75c each; price per carton of 12, $6.00. Pints retail at $2.40 each; price per carton of 12, $19.20.

S-317 ACME STOP TREE BANDING COMPOUND. 1 lb., retails at $1.05; per doz., $9.00; per case of 24, $16.80; 7½ lb. can, each, $6.25; 4 for $16.65.

ACP ROSE AND FLORAL DUST

S-131 Combats All Plant Pests. The most complete protection against diseases, insects and mites on roses and other flowering plants. A complete fungicide, insecticide, aphidicide and miticide in one package. Can be used as dust or spray. Contains Ferbam for control of rust, blackspot wilt, yellowing. Sulphur effective against mildew and scab. D.D.T. effective against beetles, iris borers, leaf rollers, caterpillars, thrips, etc. Lindane effective against aphids and other insects which have borderline reaction to D.D.T. Ovotran, effective against mites. 8 oz. dust gun retail ea. $1.00, ctn. of 24, $16.00. 1 lb. canister retails at $1.49, per case of 12, $11.18, 3 lb. can, each $3.59, 25 lb. drums each, $17.95.

S-256 ANTROL ROSE SPRAY FLOWER BOMB. Contains Lindane and Rotenone. Can be used on all types of flowers. No mixing, no pouring, no sprayer to buy. 12 oz. size retails each, $1.49, per carton of 12, $11.92.

S-118 ARAMITE-15W. Dry Wettable powder. A new miticide which can be sold under experimental label for use to control mites on a wide variety of crops, including citrus, deciduous fruits, ornamentals, and vegetables. Outstandingly effective at low dosages. 4 oz. retails $1.00 each; doz., $7.20; 12 oz. retails $2.00 each; dozen $14.40; 4 lb. bag, each $2.85; 50-lb. bag, each, $33.00.

S-126 BLACK LEAF 40. Oz. bottles, doz., $3.30; carton of 48, $12.48; 5 oz. bottles, doz., $9.52; 1 lb., $2.69 ea.; 2 lbs., $4.79 ea.; 5 lbs., $7.60 each. 10 lb. can, $14.70.

S-133 BUG-GO INSECT SPRAY-BOMB. Kills All Household Insects. The most effective aerosol insecticide. Deadly to flies, roaches, bedbugs, silverfish, ants, mosquitoes, wasps, and any crawling or flying pests. Contains D.D.T., Pyrethrum and Piperonyl Butoxide, three killing ingredients. (If one doesn't get them, the others will.) Approved by U.S. Department of Agriculture. Leaves no unpleasant odor. Used as directed, is completely harmless to humans. Retails each, $1.30; doz., $9.60.

S-102 CHLORDANE DUST ACME 6%. For dusting in gardens and on lawns to control ants, cut worms, chiggers, wire worms, etc. 1 lb. sifter top carton retails each 60c, per dozen, $5.10; per carton of 24, $9.60; 4 lb. bag retails at $1.50; 6 for $6.30; carton of 12, $12.00.

S-143 2% CHLORDANE SPRAY. (Water Base—2% Chlordane). Especially for household uses. It is a non-staining, non-oily liquid with a delicate cedar aroma. Killing power lasts for weeks. ANTS, cockroaches, flies, water beetles, silverfish, moths destroyed. For plants dilute with five parts water. Pint retails 69c; case of 12, $4.96; quart retails $1.19, case of 12, $8.56.

S-144 CHLORDANE 45 EMULSION CONCENTRATE. (Water Soluble—45% Chlordane). For crop and animal spraying, farm buildings, animal areas, and household use. Recommended maximum dosage 1 qt. per acre. ½ pints retail $1.25, case of 12, $9.00; pints retail $1.95, case of 12, $15.20; quarts retail $3.25, case of 6, $13.65; gallon jugs retail $7.85, case of 4, $25.00; 5-gallon pails, $30.00.

S-161 DIMITE. A quick, positive, long lasting contact control for mites and red spider damaging evergreens, flowers, fruit and shade trees, etc. Contains 25% Di(P-Chlorophenyl) Methyl-Carbinol (DMC) in a water mixable solution. 2 oz. retails at 69c ea.; price per dozen, $5.52; 8 oz. retails at $1.89, price per dozen, $15.12; qts., $4.00 ea.; gals., $12.00 ea.

S-154 5% DIELDRIN GRANULAR INSECTICIDE is easy to use, leaves no unsightly residue. Controls same pests as Chlordane Dust. Powerful, treats at least twice the area. Economical to use Impregnated in tiny granules, spreads easily from package, drops through grass to soil surface. No blowing dust. Quick and long-lasting effectiveness.

1 lb.	$ .89	dozen $ 7.12
4 lb.	2.98	six 11.92
12½ lb.	7.49	two 9.99

S-321 SYNKLOR 50 W CHLORDANE WETTABLE POWDER. 8 oz. retails each, $1.50; per case of 12, $10.80. 1 lb. retails each, $2.50; per case of 12, $18.00; 10 lbs. each, $10.80; 100 lb. drum, $81.00.

ALL FORMS OF D. D. T.

S-158 50% DDT WETTABLE POWDER. The most economical form of DDT in ordinary use. Kills many insects on fruit and shade trees, corn potatoes and other row crops. Used in farm buildings to control flies, ticks, blue bugs, poultry red mite. 1 lb., retails 90c; per doz., $7.20. 4 lb bag, $1.85; 48 lbs., $17.28.

S-157 D. D. T. 25% LIQUID SPRAY in emulsion form has given results on some insects superior to those from wettable powders. This is safe to use on garden and greenhouse plants. Gal., $4.50. 5 gal., $20.00.

S-155 D. D. T. 5% DUST. A ready-mixed garden dust of D. D. T. combined with a fine, light-weight filler, safe to use on all plants in gardens and greenhouses, also on livestock, dogs, pet animals (except cats) and poultry. Its extra strength assures maximum pest control. 1 lb. retails, 50c; per doz., $4.00; per carton of 24, $7.60; 50 lbs., $6.00; 4 lb. pkg., retails, $1.10; per doz., $8.80.

S-107 ACME TOMATO DUST. 1 lb. sifter carton, retails at 60c; per doz., $5.10; per carton of 24 pkgs., $9.60; 4 lb. bag retails at $1.50; per carton of 12 bags, $12.00.

S-130 D-X. Aero Spray Bomb for House Plant for African Violets, Ferns, Ivy, etc. A low pressure Aerosol bomb that makes it easy to kill insects on plants. 10 oz. Retails each $1.50. Carton of 24, $23.40.

S-180 DU PONT FLORAL DUST. Kills insects and stops diseases. 8 oz. dust gun retails at 89c, case of 2 dozen, $14.25; 1 lb. canister retails at $1.15, carton of 12, $8.65; 3 lb. canisters retail at $2.50 each, carton of 8, $13.30.

S-185 DU PONT ROSE DUST. Stops foliage diseases. 8 oz. dust gun retails at 79c each, carton of 24, $12.65; 1 lb. canisters retail at $1.00 each, carton of 12, $7.50.

S-181 DU PONT FRUIT TREE SPRAY. Insecticide-fungicide 1 lb. canister retails at $1.15 each, carton of 12, $8.65; 3 lb. bags retail at $2.50 each; carton of 8 bags, $13.30.

S-231 McCORMICKS RED ARROW. Rotenone dust. 2 lb. pkg., 50c; carton of 12 pkgs., $4.80; 5 lb. pkg. for $1.50; 6 for $6.00.

S-274 PRATT'S FRUIT TREE SPRAY. A combined fungicide and insecticide, containing Sulphur, basic Arsenate of Lead and DDT for control of many chewing and sucking insects and fungus diseases on fruit trees, ornamentals and evergreens. 1 lb. sifter top can retails at 85c, per case of 12, $6.63; 3 lb. bag retails at $1.50, case of 12, $11.70.

S-339 WETTABLE DUSTING SULPHUR. Put up in attractive 2-lb. cans, which retail at 60c each. Per case of 12, $4.80.

S-359 IMPROVED ISOTOX GARDEN SPRAY M. A truly fine spray containing Malathon, DDD and Lindane. Kills Aphids, Boxelder Bugs, Bagworms, Japanese Beetles, Lacebugs, Lawn Moth, Armyworms, Mole Crickets, White Grubs, Chinch Bugs, Cutworms, Earwigs, Ants, Thrips, Flies, Wireworms and many other pests. Residual kill up to two weeks. Use on Flowers, Shrubs, Fruit Trees and Vegetables.

4-oz. bottles	1.00	per case of 24	$16.00
8-oz. bottles	1.75	per case of 12	14.00
16-oz. bottles	2.95	per case of 12	23.60

S-265 PARA-SCALECIDE. A prepared combination of Scalecide and paradichlorobenzene making a liquid treatment for treating peach borers that is effective and safe on young and old trees with a considerable saving of labor of application. Quarts retail at $1.45 each; dozen, $11.32. 1 gal. cans, $3.25 each; 5 gal. drums, $10.40 each.

S-232 RED ARROW PYRETHRUM AND ROTENONE INSECTICIDE. 2 oz. bottles, carton of 12, $5.60; 4-oz. bottles, doz., $8.00; pint, $2.50; gal., $12.95.

S-329 TRI-OGEN SPRAY. Three-way Spray, Insecticide, Fungicide, Stimulant. Outstanding rose spray, contains Fermate. E Kit retails at $1.50, per dozen, $12.00; A Kit retails at $2.35, per dozen, $18.80; B Kit retails at $6.00, per dozen, $48.00; C Kit retails at $9.00, 6 for $36.00; D Kit, Estate Size, retails at $30.00, price each, $20.00.

S-330 TRI-OGEN DUST. 1 lb. package retails at $1.19, packed 24 to a case, per case, $19.04. 5 lb. retails at $5.00, per carton of 12, $40.00. 10 oz. dust gun, retails ea. 98c, per case of 24, $15.68.

S-328 TREE TANGLEFOOT. 6 oz. cans retail 90c, dozen $7.20; 1 lb. cans, per dozen, $12.00; 5 lb. cans, per case of 6, $28.00; 25 lb. pails, each $21.00, 3 for $59.64.

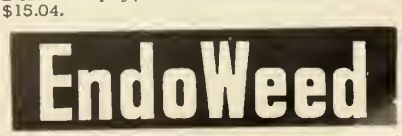
S-114 ANTROL AFRICAN VIOLET AND HOUSE PLANT INSECT BOMB. Made specifically for AFRICAN VIOLETS and other house plants such as IVY, etc. Always ready—No Mixing—No Pouring—No Sprayer To Buy. 6 oz. size retails, ea. 89c; per carton of 12, $7.12.

S-452 PLANT MAGIC VITAMIN B-1 TABLETS. Vitamin B-1 Tablets, the famous Plant Magic brand, containing extra growth-substances. The proved transplanting aid. Also for flower-plant feeding and for fortifying vitamin-deficient soils. Garden magazine articles report amazing results. Each tablet makes 2 to 7 gal. Packet retails, 25c; display card of 18 pkts., $2.70; 100 tablet bottle, 70c; doz. bottles, $5.00.

SNAROL. Two types, **S-308** MEAL or **S-266** PELLET form. For snails and slugs. Contains Metaldehyde. 1 lb., 50c, dozen $4.00, 2½ lb. $1.00, dozen $8.00, 6 lbs. $2.00, 50 lbs $9.00. When ordering specify whether meal or pellet form is desired.

S-247 SNAROL CUTWORM BAIT. Contains toxaphene. 1 lb. 50c, dozen $4.00, 2½ lb. $1.00, dozen .$8.00, 6 lbs. $2.00, 50 lbs. $9.00.

S-190 A triple acting dust for garden plants which kills insects of all types, and protects against fungus diseases. 8 oz. handy applicator gun retails for 85c; price per case of 24 guns, $13.68. 8 oz. Refill Cartridge, retails 65c each; per case of 24, $10.32. 2 lb. Refill pkg., retails at $1.79; per carton of 12, $15.04.



S-418 A preparation of 2-4D in liquid form which kills most lawn weeds. ½ pint retails at 98c, per case of 24, $14.16; qt. retails at $2.69, per case of 12, $19.44.

CHEMICAL WEED KILLERS

S-466 WEEDONE CONCENTRATE 48. Contains approximately 39% ethyl ester, or 3 lbs. (48 oz.) of 2,4-D acid equivalent per gallon. 1 gallon cans each $4.70; case of 6, $24.00; 5 gal. cans, each $22.25.

S-461 WEEDAR 64. Contains approximately 68% of the alkanolamine salt of 2,4-D or 4 lbs. (64 oz.) 2,4-D acid per gallon. 1 gallon cans, each $4.90; case of 6, $25.14; 5 gal. cans, each $23.50.

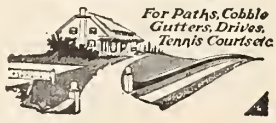
S-468 WEEDUST. 2,4-D. 12 oz. Shaker top. Each, $1.00; doz., $7.50; per carton of 24, $14.40.

S-464 NEW IMPROVED WEEDONE. Contains 2,4-D plus 2,4,5-T. With this combination of weed killers you can keep your grounds free from almost any unwanted plant growth. This newest improved Weedone will control Willow, Locust, Sumac, Poison Oak, Poison Ivy, and other woody weeds. 8 oz. covers 1500 sq. ft., retails at $1.00, per case of 24, $14.40; qt. cans retail at $2.75, per case of 12, $19.80; gallon retails at $6.75, per case of 6, $28.35; 5 gallons retails for $24.75, each $19.75.

S-406 BARWEED. This is a liquid form of 2,4-D for control of Dandelions, Plantain and other lawn weeds; will not harm grass. 8 oz. bottle sufficient to treat average lawn. Retails at 50c, per carton of 24, $6.00. Three cartons for $17.40.

HERBICIDE

THE WEED EXTERMINATOR



S-428 For ordinary grass and weeds, each part of Herbicide may be diluted with forty to fifty parts of water. One gallon will cover app. 2,500 sq. ft. Herbicide is a poison. Livestock should be kept off the treated ground until the dead leaves wither away. Qt., 85c; gal., $2.00; 5 gals., $7.50; 55 gals., $42.00.

NOTT'S SEL-TOX

S-455 NEW SELECTIVE CRAB GRASS KILLER. It contains phenol mercuric acetate solubilized, which has been proved in exhaustive tests to kill crab grass without injuring desirable lawn grasses. It can be used at any stage of growth, from the seedling stage to maturity, with equal effectiveness. Though a poison, it is mixed with water 100 times its bulk, and is easily handled with safety at all stages. Apply with watering can or sprayer. Complete directions on each bottle.

Quantity	Area Treated	Retail Price	
8 oz.	1,000 sq. ft.	$1.00	Per doz., $ 7.20
16 oz.	2,000 sq. ft.	1.50	Per doz., 10.80
Quart	4,000 sq. ft.	2.50	Per doz., 18.00
Gallon	16,000 sq. ft., $9.00 by exp. collect.		

DUPONT AMMATE WEED KILLER

S-404 (Ammonium Sulfamate). A non-poisonous weed killer which can be applied by hand or power sprayer or can be applied dry. Will kill poison ivy, poison oak, poison sumac, dandelions and plantain, Use ¾ to 1 lb. to a gallon of water. Price, 2 lb. bottle, $1.15, 6 lb. jar, $2.95, 50 lb. drum, $13.00.

S-465 WEEDONE BRUSH KILLER 32. Contains the powerful 2, 4, 5-T plus 2, 4, D for control of woody plants. 8 oz. can retails at $1.49, per case of 24, $21.36. 1 qt. can retails at $3.75, per case of 12, $29.16. 1 gal. retails at $7.95, per case of 6, $38.16. 5 gal. drum, each $37.75.

S-165 DOG-CHECK. The ideal repellent as a means of checking doggie habits. Safe and harmless to use. New formula will permit spraying on new growth. Unaffected by rain, one spraying usually lasts from two to three weeks. 3-oz. size, 60c; display carton of 12, $4.32; 8-oz. size, $1.00; display carton of 12, $7.20.

S-166 DOG CHECK POWDER. Keeps dogs off furniture. 2 oz. size, 35c; display carton of 12, $2.52. 8 oz. size, $1.00; display carton of 12, $7.20.

S-115 ANT-"X" JELLY BAIT. Tubes, garden size, 35c; display carton of 12 tubes, $2.52.

S-116 ANT-"X" TRAPS. Death box. 300 grain size for grease and sweet eating ants, each, 25c; display box of 12 traps, $1.80.

S-284 RAT-NOTS. The safe way to exterminate rats. Prepared bait containing squill can be used without fear of harming humans, dogs, livestock, etc. Trial size, 9 Nots, 35c; display carton of 12, pkgs., $2.52; estate size, 50 Nots, $1.00; display carton of 12 pkgs., $7.20.

S-237 MOUSE-NOTS. Impregnated seed bait kills mice. Fall is a good time to destroy mice in the house or orchard. Trial size, 9 Nots, 35c; display carton of 12 pkgs., $2.52; estate size, 50 Nots, $1.00; display carton of 12 pkgs., $7.20.

S-235 MOLE NOTS. Life saver for lawns and seed beds. Trial size 8 Nots, 35c; display carton of 12 pkgs., $2.52; estate size contents, 50 Nots, $1.00; doz., $7.20; jumbo size contents, 125 Nots, $2.00; doz., $14.40; gardener size contents, 400 Nots, $5.00; doz., $36.00.

5% discount on orders of six display cartons of the above.

REPELLENTS

S-235 JONES ANT KILLER (Master). ½ oz. retails 15c each, dozen $1.08, 1 bottle free, 1½ oz. retails 25c each, dozen $1.80, 2 bottles free, 3½ oz. retails 50c each, dozen $3.60, 3 bottles free.

S-168 DOGZOFF. Keep dogs and other animals away from trees, shrubs, evergreens, etc. Bottle, 75c; doz., $6.00; gross, $64.80.

S-169 DOGZOFF AEROSOL BOMB. 11 oz., each $2.25; doz., $18.00.

S-257 ANTROL ANT SPRAY. Contains Chlordane. With handy sprayer. New and easy method of killing ants in the home, yard, lawn and garden. Non-injurious to humans and pets when used as directed. Apply with handy sprayer attached. Pint size retails at 89c, per carton of 12, $7.12.

S-208 RABBIT REPELLENT. With safety to all including the rabbits. This 200 mesh fine snuff-like product is impregnated with rain resistant repelling "naturals" so that an application should last several weeks. 5 lb. package will treat 100 to 150 individual plants or 200 to 250 running feet of plant row. 1 lb. retails for 50c; per carton of 24, $8.00. 5 lb. bag retails for $1.75. Per carton of 6, $7.00.

S-290 ANIMAL REPELLENT ROPE. This rope is impregnated with improved and more effective oils which set up a barrier of scent which turns dogs, cats and rabbits away. Circle flower bed or border. Can of 100 ft. retails at $1.50, per carton of 12 cans, $10.80, 6 cans for $6.00.

CRAB-NOT IS BEST CRAB GRASS KILLER

Contains Potassium Cyanate—Since 2,4-D made it easy to kill dandelions with a spray, crab grass has become the No. 1 Weed in lawns throughout this country. Potassium Cyanate (PC for short) is nonpoisonous, an entirely distinct product from the deadly potassium cyanide. It is safe to use where pets and children play.

Two formulae of Crab-Not are offered, Standard, the processed form of PC alone; Special, a combination of PC and 2,4D. The Special formula kills dandelions, chickweed and other lawn weeds together with crab grass in the same oporation.

S-149 STANDARD FORMULA (86% "P.C." plus Wetting Agent)

Size	Approx. Coverage	Retail Price	Units Per Case	Weight Per Case	Dealer Cost
4 oz.	1400 sq. ft.	$ 1.00	12	5 lbs.	7.20 dozen
16 oz.	5000 sq. ft.	2.95	12	16 lbs.	21.24 dozen
2 lb.	¼ acre	5.00	6	16 lbs.	20.00 case
6 lb.	⅔ acre	10.95	2	14 lbs.	14.60 case
40 lb.	5 acres	51.50	1	45 lbs.	36.05 each

S-148 SPECIAL FORMULA (69.4% "P.C.", 16.6% "2-4-D")

Size	Approx. Coverage	Retail Price	Units Per Case	Weight Per Case	Dealer Cost
4 oz.	1400 sq. ft.	$ 1.25	12	5 lbs.	9.00 dozen
16 oz.	5000 sq. ft.	3.50	12	16 lbs.	25.20 dozen
2 lb.	¼ acre	6.00	6	16 lbs.	24.00 case
6 lb.	⅔ acre	12.50	2	14 lbs.	16.67 case
40 lb.	5 acres	59.00	1	45 lbs.	41.30 each

S-1926 LITTLE STINKY FLY TRAP. Retails at $2.95. Includes 3 oz. control powder. Per dozen $23.60.

S-1927 WEE STINKY FLY TRAP. Retails at $1.69. Includes 1½ oz. control powder. Per dozen $13.52.

Both Little Stinky and Wee Stinky traps fit any standard fruit jar.

BIG STINKY is a complete, ready to bait fly trap, furnished with Big Stinky Control Fluid. Both Little Stinky and Wee Stinky are furnished without jars, and as you see above employ use of a Powder instead of Fluid.

S-1925 BIG STINKY FLY TRAP. Can be used indoors and outdoors. One gallon Big Stinky Fly Trap complete with 8 oz. bottle of control fluid, retails, each, $4.95; 6 for $19.80. Extra bottles of control fluid retails, each, $1.50; dozen, $12.00.

Vaughan's High-Grade Fertilizers

The highest grade only. Guaranteed analysis. Prices net cash. F.O.B. Chicago.

S-194 FOLIUM PLANT FOOD CONCENTRATE. 20-20-20. 2 oz. pkg. retails at 25c each, carton of 72 $12.00; 1 lb. can retails at $1.25 each, per carton of 12, $10.00; 5 lb. can retails at $4.50 each, per case of 6, $18.00.

S-228 KRILIUM (Merloam) soil conditioner. New improver for soil mixes in the greenhouse and nursery. Improves soil irrigation. Quickly improves aeration. 2 oz. retails at 25c per ctn. of 24, $4.00. 1 lb. package retails at $1.39, per carton of 12, $11.12, 5 lb. package $4.95 each, per carton of 6, $19.80.

S-344 KRILIUM (Loemaker) Concentrated form 100% active, economical. 1 lb. will treat 100 sq. ft. of soil, in silty clay, 3 inches deep. Price 10 lb. cannister, $19.75, 25 lb. fiberpack drum $47.00, 50 lb. fiberpack drum $90.00.

S421 NO-WEED TURFOOD. 6-10-4. This is a mixture of organic plant food with weed killers including 2, 4D, which resulted from experiments conducted at the Pennsylvania Experiment Station. It can be applied with a fertilizer spreader at 1½ to 2 lbs. per 100 square feet and will kill broad leaved weeds, at the same time feeding the lawn. An application in spring and fall has proved in two years' tests to produce a thick, beautiful turf with less than 2% weeds. Do not use on lawns less than a year old, or on close mown creeping bent in summer. 25 lb. retails at $3.25 each, 3 for $6.50, 80 lb. bags retails at $7.75 each, 3 for $15.50.

S-401 ACTIVO Make your own fertilizer easy, quick—often in as little as three weeks. Odorless Organic! Just sprinkle Activo on kitchen waste, leaves, garden rubbish, sewage sludge etc. Sprinkle in outdoor toilets, reduces odors, makes easily handled ash of waste. No. 2 size 90c; treats 450 lbs. compost. 6 for $4.00, dozen, $7.20. No. 7 size, $2.25; treats up to 1800 lbs. Carton of 6, $10.00, doz., $19.20. No. 20 size, $4.25, three for $12.00; treats up to 2 tons compost. No. 50 size treats up to 6 tons compost $8.25.

S-402 ADCO ARTIFICIAL STABLE MANURE. 5 lbs., $1.35; carton of 10 pkgs., $12.40; 20-lb. bags $3.00; 150-lb. bags, each $16.95.

ALUMINUM SULPHATE. For creating acid condition in the soil. 25 lbs., $1.60; 50 lbs., $2.75; 100 lbs., $4.20; 200 lbs., $8.00.

BONE AND BLOOD. For garden crops use 500 lbs. per acre. 50 lbs., $3.85; 100 lbs., $7.00; 500 lbs., $34.00; 1000 lbs., $67.00.

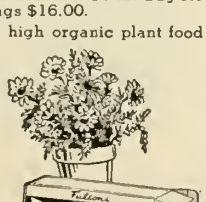
BONE MEAL. Regular or Standard Grade. 5 lb. pkg. doz., $6.00; 10 lbs., pkg. doz., $10.20; 25 lbs., $1.95; 100 lbs., $5.25.

CATTLE MANURE, Shredded. High grade natural fertilizer. 100 lbs., $3.20; 500 lbs., $14.95; 1,000 lbs., $29.50; 2,000 lbs., $58.50.

CHARCOAL. Put up in 50 lb. bags. We can supply all sizes from powder to lump. Per bag, $3.75. Write for price on larger quantities. Lump Charcoal, only per bag of 25 lb. $1.75.

ORG-A-NUR. Fertilizer with a peat moss base impregnated with a high grade manure. 50 lb. bag for $1.85; 5 bags, $8.50; 10 bags $16.00.

ELECTRA. Analysis 5-10-3. A high organic plant food for feeding, forcing and finishing. It should be used in potting soil as a top-dressing. Helps bring plants to highest perfection. 80 lbs., $6.50.



S-451 FULTON'S PLANTABBS. Odorless plant food in tablet form; supply a complete balanced plant food including Vitamin B-1. Put up in boxes. 10c size, doz., 72c; 25c size, doz., $1.80; 50c size, doz., $3.60; $1.00 size, doz., $7.20; $3.50 size, each, $2.35.

S-420 FERTIL-FLO. A new soluble plant food 79% available. Contains 10% nitrogen, 52% phosphoric acid, 17% water soluble potash. When dissolved, no residue remains. A good starter solution. 1 lb. dissolved as instructed is sufficient for approximately 400 sq. ft. on lawn or garden, 3 oz. tins retail at 35c ea.; $2.80 per dozen. 1 lb. retails at $1.00 ea.; $8.00 per dozen. 3 lb. retail ea. $2.50, 6 for $10.00; 10 lbs., $5.00; 25 lbs., $7.50.

IMPORTANT. The prices on this page are based on present prices of fertilizers and are subject to change as market fluctuates.

KAPCO SOLUBLE FERTILIZERS

These high-grade plant foods are proving their worth more and more each season to many leading growers. They are available in several formulas for your specific needs and have added minor elements. They feed economically, uniformly, quickly, safely.

Analysis	25 lbs.	80 lbs.	480 lbs.	800 lbs.
15-30-15	$5.50	$16.00	$91.20	$144.00
20-20-20	5.50	16.00	91.20	144.00
20-10-20	5.00	14.40	81.60	120.00
Azalea Acid. 21-7-7 plus,	5.50	16.00	91.20	144.00
CARNATION MED. 12½-25-25	6.00	17.60	96.00	152.00

NITROGANIC 5-4-0. All organic fertilizer consisting of heat dried sludge from Chicago Sanitary District plants, prepared by same treatment as that used in Milwaukee, Wis., and Houston, Tex. Recommended for lawns, borders and gardens. Put up in attractive 80 lb. bags. 6 bags for $15.60; 13 bags, $31.20; 25 bags, $57.50.

GROGANIC. 6-11-6. A long lasting plant food rich in organics. Contains no filler whatever. Bulk is provided by dried blood, fish scraps, castor pomace and vegetable meal. Boron is added to correct acidity and manganese sulphate to prevent chlorisis (yellowing) in leaves. 5 lb. retails at 95c ea.; $6.20 per dozen. 10 lb. retails at $1.45 ea; $5.26 per carton of six; 25 lb. retails at $3.25, 6 for $12.00; 80 lb. bags retail at $7.45; each $5.10; 5 bags for $24.00.

S-429 HY-GRO PLANT FOOD. Famous 13-26-13 soluble formula and starter solution. Produces healthier growth and heavier yields—speeds earlier growth of seeds—checks wiltering of transplants. Contains growths, hormones, minerals and other plant nutrients—provides all the food necessary for healthy plant growth. This formula was not obtainable during the war. 3 oz. Polyethylene Bags retails at 35c, packed 48 to carton, price per carton $10.80; 2 lb. jar retails at $1.85, packed 12 to carton, price per carton $15.00; 10 lb. container each $4.00; case of 3, $10.00; 50 lbs., $14.50; 100 lb. drum each, $27.00.

HORN SHAVINGS. Synthetic quick-acting and lasting. 25 lbs., $3.00; 50 lbs., $5.25; 100 lbs., $9.00; 500 lbs., $41.00. Write for prices on larger quantities.

HORN SHAVINGS. The regular old type shavings. 25 lbs., $4.50; 50 lbs., $8.25; 100 lbs., $15.00.

S-430 HYPONEX. Contains all of the known major and minor elements of plant food with vitamin B1 added. Analysis 70% Nit., 6% Phos., 19% Pot. Ceiling prices, 1 oz. packet makes 6 gals. Retails at 10c, price per carton of 72 pkts. $4.80; 3 oz., retails for 25c. Doz., $2.00; 1 lb. retails for $1.00. Doz., $8.00; 10 lbs., $5.33; 25 lbs., $10.00; 50 lbs., $16.67; 100 lbs., $26.67.

LOMA ANALYSIS 5-10-5. A scientifically prepared plant food for flowers, vegetables and potted plants. 5-lb. carton, 12 in case, per case, $3.80; 10-lb. bags, 10 in a sack, per sack, $5.90; 25-lb. bags, 4 in a sack, $4.50; 50-lb. bags, each $1.75; 100-lb. bag, $3.40; 2,000 lbs., $68.00.

MINERALIZED LOMA HIGH ANALYSIS 8-8-8. This plant food supplies 15 essential minerals, not merely as traces, but in sufficient quantities to enable the plants to derive full benefit from the abundant Nitrogen, Phosphoric Acid and Potash in the mixture. 25 lbs. retails for $2.50, price per bale of 4, $5.20; 100 lb. bag retails at $7.00, 5 bags for $21.00. $10.00 a ton freight allowance on Mineralized and Regular Loma on shipments of 500 lbs. or more out of Lockland, Ohio.

ORGANI GREEN. Organic Lawn Food. Total nitrogen organic 5%; available phosphoric acid, 2.25%. All organic, will not burn, long lasting, kiln dried. Recommended especially for lawns. Put up in 50 lb. bags. 5 bags for $8.25; 10 bags for $16.00; $59.00 per ton.

VAUGHAN'S PEAT MOSS

S-1803 GERMAN PEAT MOSS GRANULATED. A moisture retaining humus, an important aid in saving soil fertility. Better than manure. Large bale, $4.60; 5-bale lots, $4.35 per bale; 10-bale lots, $4.20 per bale. Garden size bag of about 25 lbs., each, $1.95; 10 for $18.75.

PARKERS PEAT MOSS

This compressed peat moss is easier to handle, use 1 5 as much as ordinary peat, expands 5 times, absorbs water immediately. 5 lb. bags, 10 to a carton; price $6.50 per carton; retails at $1.00 per bag.

IMPORTED GERMAN HORTICULTURAL PEAT MOSS. Prepackaged, ready-to-sell. 1-peck polyethylene bags, carton of 12 pkgs. $5.25, retails at 65c each; 3-peck polyethylene bags, price per dozen pkgs. $10.00, retail, $1.30 each, 2 bushel Karry Kartons, price $19.50 per dozen, retail $2.35 each.

SHEEP MANURE. Vaughan's Pulverized. Pure, dry, finely ground 100 lbs., $3.20; 500 lbs., $14.95; 1000 lbs., $29.50.

S-436 "PLANT LIFE" (NEW). A well-known liquid fertilizer for house plants. Prices, retails 29c per bottle; packed 24 in a display carton, $4.64; 8 oz., 59c; carton of 24, $9.44; gal., $3.00.

PLANT PROD. (15-30-15). A water soluble fertilizer. Is beneficial to all types plants, ornamental or vegetable. The economical and safe way to feed plants. Price 10 lbs., $4.50; 25 lbs., $8.50; 50 lbs., $12.00 100 lbs., $21.00.

POTASSIUM NITRATE 100 lbs. for $19.75.

S-454 RA-PID-GRO the Foliage Plant Food. Analysis 23-21-17 with Minor Elements, Vitamins and Growth Hormones. Good for all crops. 6 oz. retails at 50c packed 24 to carton $8.00. 1 lb. retails at $1.25 packed 12 to carton $10.00. 5 lb. retails at $4.50, packed 6 to carton $18.00. 10 lb. retails at $8.75, packed 4 to carton $23.35. 25 lb. each $14.00. 50 lb. each $28.00.

SPECIAL BALANCED ROSE FOOD. 7-8-5. An organic, no filler, 100% plant food of dried blood, fish scrap, bone meal, potash, cottonseed meal and phosphate. This is a special mixture for growing roses and is a balanced, all-purpose fertilizer which can also be used on all flowers, shrubbery, etc. This type mixture has been used by commercial growers and florists for many years and has given excellent results. 5-lb. bag retails for 95c, price, per carton of 12 packages, $6.80, 10-lb. bag retails for $1.45, price, per carton of six, $5.80; 25-lb. bag, $2.35 each, six for $12.90; 100-lb. bag, $6.75 each, five for $32.50.

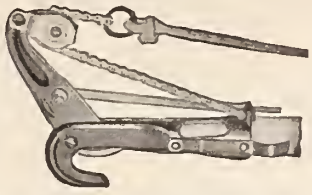
SUPERPHOSPHATE. 20% available. Ceiling prices, 80 lbs., $2.15; 480 lbs. $11.50; 960 lbs.; $22.50.

UNIVERSAL ACID PLANT FOOD. Analysis 5-12-4. A special plant food for the more difficult acid loving plants. It creates an organic acid soil condition, is not toxic, to roots. Promotes root growth and plant growth which permits growing, training and flowering with safety. Price, 80 lb. bag $6.50.

VIGORO. The complete plant food supplies all the elements necessary for growing plants. It is economical and easy to apply. Use Vigoro in your greenhouse. It will aid you in obtaining higher quality flowers and vegetables at lower costs, which means more profit for you. Sell Vigoro to your retail trade for use on flowers, lawns, ornamentals, vegetable gardens. It is nationally known. For House plants sell Vigoro Tablets, convenient to use. Price, 100 lb. bag, $3.35 each; 50 lbs., $1.75; 25 lb. bag, $1.12 each; 10 lb. bag, 6 per case, $3.78 per case; 5 lb. bag, 12 per case, $4.08 per case; 1 lb. bag, 32 per case, $2.88 per case; 500 lbs. or more delivered free to your railroad station within 500 miles of Chicago. Vigoro Tablets, 96 pkgs. of 8 to 1 pkg., per case $6.24.

ALL PRICES ON THIS PAGE SUBJECT TO CHANGE WITHOUT NOTICE

IMPROVED PORTER NO. 7TQ90J TELEPHONE PRUNER



A strong and rugged Pruner with many advantages, such aslighterweight, greater cutting power, strength and greatly improved spring action which eliminates spring breakage with one pulley.

S-1100 PRUNER HEAD. Only $5.95. Pruner head with 6 ft. head pole and two 6 ft extension poles, $14.25.

S-1144 TREE PRUNERS. Clyde, 6-ft., $2.95; 8-ft., $3.25; 10-ft., $3.75; 12-ft., $4.25. Extra blades, each, 30c.

S-1125 SNAP CUT PRUNER. Heavy duty, full polished, $2.50; 6 pair for $12.60.

S-1017 SAWS, DOUBLE-EDGED PRUNING. 18 in. $1.95; 3 for $5.25.

S-1095 TRIMMER, CALIFORNIA POLE. Curved, draw-cut saw with crook for removing branches. Each, $2.95; 3 for $7.50.

S-1101 PORTER TWINCUT PROFESSIONAL ONE HAND PRUNER. This pruner is drop forged from selected tool steel. The patented pivot bolt cannot tighten or loosen in use, yet can be easily adjusted. Equipped with new concealed locking device. Instantly locks or unlocks the closed tool with the touch of the thumb. 9 inch full polish. Price, each, $5.75, three for $15 75

HENCKEL IMPORTED PRUNING SHEARS HIGHEST QUALITY

S-1048B 8½ inch full polished with replaceable coil spring. Each, $5.60; six for $31.50.

S-1048C 9½ inch, each, $6.00; six for $32.75.

S-1048D 8½ inch, with brass springs, each, $5.85; six for $32.00.

FLAME SHOOTER GUN

S-745 4 gal. heavy all-welded (not riveted or soldered) corrugated fuel and air tank tested to 60 lbs.; burns kerosene, range oil, stove or light furnace oil. Price complete, $21.00 (weight 17 lbs.)

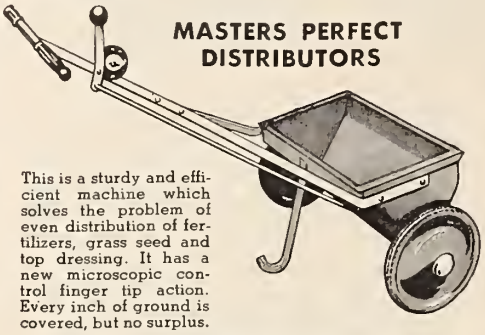
All prices in this catalog subject to change without notice.

FERTILIZER SPREADER

SALEM IMPROVED FERTILIZER SPREADERS

Will spread any kind of commercial fertilizer, grass seed or top dressing. Has new disc wheels, foot rest and selective feed control. **S-517** 16 inch, hopper capacity about 20 lbs. Retails at $8.25. Price each, $6.60. Three for $17.45. **S-518** 20 inch, hopper capacity about 40 lbs. Retails at $12.75. Price each, $9.25. Three for $26.75. **S-519** 30 inch, hopper capacity about 80 lbs. with rubber tire wheels. Retails at $19.40. Price each, $13.60. Super Heavy 36 inch, hopper capacity over 100 lbs. Retails at $39.50. Price each, $27.50.

MASTERS PERFECT DISTRIBUTORS



This is a sturdy and efficient machine which solves the problem of even distribution of fertilizers, grass seed and top dressing. It has a new microscopic control finger tip action. Every inch of ground is covered, but no surplus.

Home Lawn Distributor Model No. 25D, With Rubber Tires

S-513 Model 25D, retails each, $9.95, price each, $7.50; 3 for $20.85.

S-509 Model 30—50 lb. capacity retails each $12.75, price each, $9.75; 3 for $26.75.

S-510 Model 40 (24" spread—Tubular T handle—semi-pneumatic tires) retails at $19.75, price each $14.75,
Models 25D, #30 & #40 equipped with Microscopic control.

S-505 Model M361D, 36" with rubber tires, retails at $53.25, price each, $39.95.

S-506 M-361SD. 36" Stainless Steel, agitator bottom and semi-pneumatic tires, retails at $63.95, price each, $48.00; 3 for $134.25.

RODENT ROCKETS

. . . THE EASY WAY

S-286 Novel effective, destroyers; strike like a match and blitz out whole families of gophers, moles, rats, field mice, ants, etc., at one "shot." Safe, sure, efficient aids to hunters in "un treeing" holed-up woodchucks, raccoons, etc. 2 for 25c; dozen, $1.20.
Packed two dozen to an attractive display carton, weight 2½ lbs. Invaluable in Nursery and Greenhouse. Price per carton of 36 rockets, $3.30; six dozen for $6.30.

SEEDERS

S-1603 VIBRA-SEEDER. A battery operated flower and vegetable seeder for commercial and home gardeners—fits palm of hand—will sow row or flat in fraction of time normally required. Operating cost one flash light battery per season. A real time, labor and seed saver. Price each, without battery, $1.95; 12 for $16.80. 6 for $9.00.

S-1090 SEEDER-FEEDERWEEDER. Amazing new scientific garden tool that saves you time and money. Insures a green velvet smooth carpet of grass by continuous, uniform spreading of lawn seed, dry fertilizer and dry weed killer. Approximate shipping weight 2 lbs. Each, $4.95, 3 for $9.90.

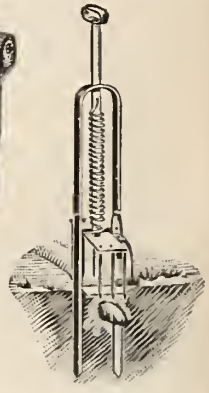
S-1146 STAINLESS STEEL DIBBLE. Made of pure stainless steel. Outwears any other dibble made. Ease of use increases production as much as 10%. Added feature is the soil free angle which relieves the soil and prevents clinging to point. Price each, $1.50; postpaid, $1.60.

S-1049 SPEEDEE PLANTER. Made of heavy gauge steel with a hardwood handle, overall length 40 inches. It is a tapered cylinder designed to permit automatic ejection of earth; the cutting edge for easy digging, a heavy foot bar flange for comfortable operation. Takes the backache out of planting. Retails at $2.65 each, carton of 6, $10.60.

S-1136 DIBBER. For planting bulbs and plants. Steel point. Each, $1.35; postpaid, $1.50.

PLANTING TOOLS HOLE-IN-ONE

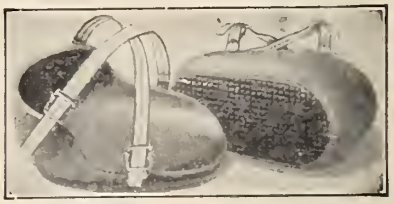
S-1068 The tapered cup removes the soil and makes perfect planting hole in one operation. A slight twist when pushing tool into the soil, also when removing it, will leave a clean flat bottomed hole. Each, 85c; three for $2.25; doz., $7.60.



S-1068L Long handle planting tools, each, $5.75.

MOLE TRAP

S-1107 REDDICK No. 200 Improved with patented setting attachment. One of the best mole and gopher traps. Each, $1.95; 3 for $5.25.



KNEE PADS

S-1117 All rubber cushion pads constructed of solid and sponge rubber with adjustable straps; fit any knee, will not slip during walking. Price. $1.60; 3 for $4.50.

Ladies size retail at $1.60; 6 pair for $6.40.

Bowls for Growing Bulbs

S-1805 NO. A. POTTERY BULB AND FLOWER BOWL ASSORTMENT. This assortment consists of the following: 15—6" bowls, 15—7" bowls and 6—8½" bowls. The assortment comes in assorted colors of yellow, blue, and green. Price per complete assortment $27.60.

S-1805 F. L. STYLE POTTERY BOWLS, IN BLUE, YELLOW, OLD ROSE AND GREEN. 6-in. diam., doz., $7.80; 7-in. diam., doz., $10.20; 8-in. diam., doz., $13.20.

Pearl Chips and Prepared Fibre

For growing Bulbs in Bowls and Pots.

BULB FIBRE. Prepared for growing Bulbs in bowls at 10 lbs., $1.25; 25 lbs., $2.45; 100 lbs., $6.95.

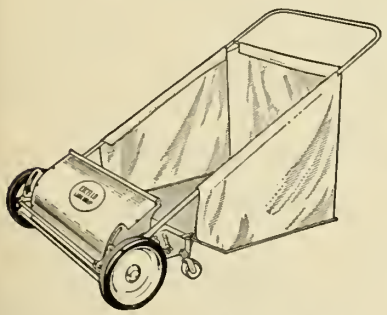
S-1804 PEARL CHIPS, WHITE, for growing Bulbs in bowls at $4.00 per 100 lbs.

S-1804 PEARL CHIPS, COLORED, $4.25 per 100 lbs. Write us for prices on larger quantities. Place orders early to insure getting desired colors.

S-1808 PEARL CHIPS IN ATTRACTIVE PACKAGES. White Pearl Chips retail at 15c per package, per dozen $1.15; 6 dozen for $6.30; 12 dozen for $11.40.

S-1809 Colored Pearl Chips in small packages, per dozen, $1.25; 6 dozen for $6.60; 12 dozen for $12.60.

Excello Lawn Sweeper



S-631 EXCELLO 24-IN. LAWN SWEEPER. Save time and energy, eliminate tedious raking. Let the quiet Excello lawn Sweep gently sweep leaves, grass clippings, small twigs, and paper from your lawn and driveway into a canvas basket with easy action. Width 24-in. All castings of special aluminum alloy. Strong, durable and rust-proof. Semi-pneumatic tires. Brush unit mounted on self-adjusting chrome steel bearings. Aluminum alloy caster wheels provide ease of operation. Shipping weight 55 lbs. Price each $37.50.

No. FS21 GARDEN CRAFT FEEDING STATION

This is one of the most successful and appreciated bird feeders. It is equipped with a spindle for mounting, and the double weather vane keeps the sheltered end headed into the wind, thus keeping the food dry in rainy or snowy weather.

Size 24x12x12. Shipping weight 16 lbs.

S-1711 Price stained brown $7.20
S-1712 Price stained with glass back 9.00
S-1710 Erection Post bored for mounting rod 2.50

Shipped by express, charges collect.

WREN HOUSE No. 16

S-1720 This time tested stepkut house is designed to meet the needs of birds, the steps help nestlings to reach the exit, bottom removable for cleaning. Price, stained brown, each, $2.00; 6 for $10.20.

S-1706 BLUE BIRD HOUSE No. 5 similar to the above, stained brown, $1.50; 6 for $7.40.

PLASTIC BIRD FEEDER

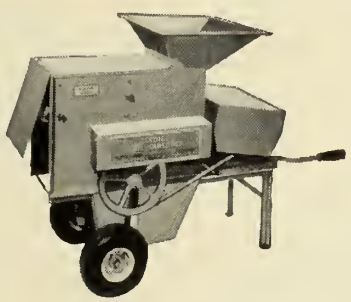
An economical feeder for all kinds of seeds, cracked corn or other small food.
If filled with sunflower seeds, it unfailingly attracts Cardinals, rose-breasted Grosbeaks, Finches and many other large as well as small pretty birds all year around.
Birds enjoy swinging with the feeder. Comes in three colors: Blue, Red and Yellow. Each, $1.00; 6 for $4.25; 12 for $8.00.

No. FS10 GARDEN CRAFT BIRDFEEDER

S-1703 This cleverly constructed feeder will provide endless pleasure and satisfaction for bird lovers. You will be more than repaid for your generosity in providing food for your feathered friends during the early spring, late fall and winter, by their appreciation. Size 8x3x10 in. Shipping weight 3 lbs. Price, $2.10; 6 for $10.80

S-1709 Erection pole with arm $1.75

S-1723 No. 13G Feeding Station 7½ x 12 inches. Made of clear California Redwood, fitted with brass hardware and screws. Suet cakes can be set in the ends of this station. Shipping weight 5 lbs. Price each, $2.95, six for $11.80.



LINDIG SOIL SHREDDERS

Model Jr-B, Feeding Hopper size 15 x 15 in., with 15 shredding blades, and 4 stationary blades. Price without motor, $95.00, with 1/3 h.p. electric motor, $136.00, with ½ h.p. electric motor, $152.00, with ¾ h.p. Gas engine, $151.50.

Model 1B-4, Feeder hopper size 16 x 18 in., shredding rotor assembly 8½ in. wide, with 4 shredding blades on each bar, with 3 stationary blades. Price without motor, $130.00; with ¾ H.P. electric motor, $195.50, with 2 H.P. Gas Engine $200.00.

Model 1B-6, same as model 1B-4, except that it has 6 shredding blades on each bar, with 5 stationary blades. Price without motor, $135.00; with ¾ H.P. electric motor, $200.50; with 2 H.P. Gas Engine $205.00.

Model 2B-6, Feeder hopper size 18 x 20 in., shredding rotor assembly 10½ in. wide, has 6 shredding blades on each bar, with 5 stationary blades. Price without motor, $160.00; with ¾ H.P. electric motor, $225.50; with 1 H.P. electric motor, $247.50; with 2 H.P. Gas Engine $230.00.

Model 2B-8, same as model 2B-6, except that it has 8 shredding blades on each bar, with 7 stationary blades. Price without motor, $175.00; with 1 H.P. electric motor, $262.50; with 2 H.P. Gas Engine $245.00.

Screening Attachmen.s:

Type B Screener for Model 1B-4 and 1B-6 . . . $50.00
Type B Screener for Models 2B-6 and 2B-8 60.00
Rubber tires for use with all models, per set. 20.00

Write us for price on Lindig Hy-Load Conveyor.

KEMP IMPROVED POWER SOIL SHREDDER

Prepares any kind of soil, wet, dry, or stony—for any purpose. It reduces time and labor costs from 30% to 50% over old methods; makes manure and fertilizer go further. A Kemp Shredder usually pays for itself during the first year of use.

KEMP POWER SOIL SHREDDER No. 6

Shredding heavy, wet compost made from sod and manure. Designed especially for the small grower.

Low in price and economical to operate. Powered with a ¾ H.P. electric motor that can be plugged into any electric light socket.

For use also in potting shed for shredding soil for use in flats and pots. Also a handy machine for shredding and mixing soil and manure on benches.

SPECIFICATIONS

Length . . . . . 38"
Width . . . . . 22"
Height at discharge end . . . . . 36"
Height at hopper . . . . . 33"
Weight . . . . . 200 lbs.
Power . . . . . ¾ H.P.

Capacity—either one or two men loading hopper.

Parts having most wear, the hopper, top and deflector, made from steel.

Machine shipped complete with motor and cord, ready to plug into socket and run.

Price of No. 6, complete, ready to run $184.00

KEMP SOIL SHREDDERS

No. 6 Complete with ½ H.P. electric motor, 3 ft. of cord, mounted on truck with wheels $172.00
No. 6 Complete with 1½ H.P. Briggs & Stratton gas engine, mounted on truck with wheels. $170.00
No. 6 Complete, less engine or motor, mounted on truck with wheels $130.00
No. 1 Complete, with 1½ H.P. electric motor, switch and 10 ft. of cord, mounted on truck with wheels $495.00
No. 1 Complete with 2½ H.P. gas engine, mounted on truck with wheels $470.00
No. 1 Complete, less engine or motor, mounted on truck with wheels $400.00
No. 2 Complete, with 6 H.P. gas engine, mounted on truck with wheels includes clutch $680.00
No. 2 3 H.P., 3 phase electric motor $660.00
No. 2 Complete, less engine or motor, mounted on truck with wheels $530.00

MODEL SKO SMALL KEMP ORGANIC SHREDDER model complete with gas engine or electric motor, $160.00.

ATTACHMENTS

No. 1 Peat attachments . . . . . $ 28.00
No. 2 Peat attachment 35.00
No. 1 Elevator attachments 185.00
No. 2 Elevator attachments 200.00
No. 1 Shaker screen attachments with either ⅜", ½" or ¾" round holes 155.00
No. 2 Shaker Screen attachments with either ⅜", ½" or ¾" round holes 170.00

Rubber tired wheels for No. 6, $10.00 extra. Extension cord for No. 6 Electric, 30c per ft. Extension cord for No. 1 Electric, 30c per ft. Rubber tire Nos. 1 and 2, $30.00.

(F.O.B. Erie, Pa.)

Prices for machines with electric motors are for AC Motor 60 cycles, 1 and 3 phase, 110, 220 or 440 volts.

FLYING DISK SCARE Birds and Animals Away

S-1904 Amazing protection for newly planted seeds, berries, tender seedlings, fruit trees, etc. Made of shining aluminum. FLYING DISKS spin and whirl madly in all directions—give blinding reflections and weird jingling, crackling sounds—to scare birds and animals away. Easily strung across area to be protected — or from branches of fruit trees and vines. Pkg 25c; 12 pkgs. for $2.25; ctn. of 24 pkgs. for $4.00.

BUYERS: Give this Check List the "Once Over" When Ordering

This is a list of items most commonly used and needed by Greenhouse operators during the catalog months of the year. A glance at the list will probably recall any needs you might have forgotten which would inconvenience you later. It will also be a suggestion aid as to the possibilities of filling any empty benches. Included are a few hints regarding varieties, time of blooming, and culture. All items are listed in our "Books for Florists," but this will give you a quick check for busy months. We are planning to print improvements on this in each book if it is of any value to you. We would appreciate hearing your ideas. Better keep this for references until the next issue.

ITEMS TO START IN AUGUST

FLOWER SEEDS

Antirrhinum (for cuttings)
Aloe Variegata (pot plant)
Asters Royal type (see culture)
Begonia pots and combinations
Bellis Spring bedding plants
Browallia (for cutting and pots)
Calceolaria pots and combinations
Calendula (for cutting)
Centaurea Cyanus (for cutting)
Cineraria pots and combinations
Cyclamen
Delphinium (sow for Spring plants)
Didiscus (for cutting)
Exacum Affine (pot plant)
Leptosyne (for cutting)
Lupinus Hartwegi (for cutting)
Marigolds (for cutting)
Mignonette (for cutting)
Myosotis both greenhouse cutting and spring plant varieties
Nasturtiums (for cutting)
Nemesia (cutting and combinations)
Pansy both greenhouse cutting and spring plant varieties
Primula Malacoides Baby Primrose
Primula Obconica
Schizanthus (pots, combinations)
Stocks

FLOWER SEEDS—Continued

Statice Suworowii (cutting)
Sweet Peas (Early)
Viola (Spring plants)

ALL PERENNIAL SEEDS
LAWN SEED
SUPPLIES

Bamboo Stakes
Bone & Blood
Bulb Bowls
Chelated Iron
Fermate
Groganic
Hyacinth Glasses
Lindane
Loma
Mildex
Parathion
Pearl Chips
Pot Labels
Sheep Manure
Soil Shredder
Sphagnum Moss
Super Phosphate
Vapatone
Volk

BULBS

Freesias
Lilium Candidium
Valley Pipe

Planted in August	Benching	Blooming	Culture
Antirrhinum	Oct.	Feb.–April	Pinch Oct. 1 to 3 or 4 sets of leaves.
Asters	Oct.	March–April	Lighted.
Calceolaria	Oct.	Mothers Day	
Calendulas	Oct.	Feb.–March	42°–45° Pinch.
Calendulas	Oct.	Dec.–Feb.	48°–50°.
Cineraria	Oct.	Feb.–March	Do not pinch.
Cyclamen	Aug.	Nov.–Feb.	55°–60° for germination.
Didiscus	Oct. 1	Feb.–April	Do not pinch. Grow cool.
Leptosyne	Oct.	Jan.–May	Lighted.
Marigolds (Winter flwg.)	Sept. 15	Nov.–Jan.	
Mignonette	Oct.	Dec.–March	Do not pinch. Disbud. Grow cool.
Nemesia	Oct.	Oct.–Feb.	Medium heavy poor soil. 50°.
Pansies	Nov. 1	Dec.–March	Lighted.
Primula Malacoides	Oct.	March & later	
Schizanthus	Oct.	Christmas	Pinch until Oct. 15.
Statice (cutting)	Dec.	Feb.	
Stocks	Oct.	Jan.15–Feb.15	Grow below 50° for setting buds.
Stocks	Oct. 15	Jan. 20 on	Lighted. Grow below 50° for setting buds.
Sweet Peas	Aug.	Dec.	Run rows N. & S. for winter blooms. Use sterilized soil low nitrogen. Avoid watering in dark weather to prevent buds dropping. Suggest furrows between rows for irrigation to avoid getting water on plants and fertilizing.
Freesia (bulbs)	Aug.	Dec.–Jan.	
Lilium Giganteum	Aug. 1	Oct.25–Nov.10	Start 50° until 4 in. Grow 70°–80°.
Lilium Giganteum	Aug. 15	Nov. 10–30	Start 50° until 4 in. Grow 70°–80°.

NURSERY

Hardy German Iris in field

ITEMS TO START IN SEPTEMBER

FLOWER SEEDS

Aloe Variegata (pot plant)
Antirrhinum (for cutting)
Begonia (pots and combination)
Browallia (for cutting)
Calceolaria (pots and combinations)
Calendula (for cutting)
Centaurea Cyanus (for cutting)
Chrysanthemum (A) (for cutting)
Cineraria (pots and combinations)
Clarkia (for cutting)
Cynoglossum (Chinese Forget-me-not)
Didiscue Coeruleus Imp. (for cutting)
Godetia (for cutting)
Gypsophila (A) (for cutting)
Larkspur (A) (for cutting)
Fuchsia (from seed for pots)
Lupinus (A) (for cutting)
Marigolds (for cutting)
Matricaria (Feverfew) (see culture)
Mignonette (for cutting)
Nemesia (cutting and combination)
Pansy
Primula Malacoides (Baby Primrose)
Salpiglossis (for cutting)
Schizanthus (combination and pots)
Stocks
Streptocarpus (for Spring pot plant))
Sweet Peas (Early)
Vinca Rosea (plants)

BULBS

Anemone
Callas Aetheopica
Crocus
Display Paper Whites
Display Tulips
Freesias
Hyacinths
Iris
Ixias
Lilium Candidium
Muscari
Narciesue
Paper Whites
Ranunculus
Scillas
Snowdrope
Soleil D'or
Tulips

ITEMS TO START IN SEPTEMBER—Continued

GREENHOUSE

Azaleas
Cinerarias 2¼"
Lantana R.C.
Primula Erickson 2¼"
Geraniums 2¼" & R.C.

SUPPLIES

Bone & Blood
Loma
Jardiniere
Peat Moss
Raffia

SUPPLIES—Continued

Bombs Parathion, Tepp and Hetp
Ruscus
Hyacinth Glasses
Bulb Bowls
Pearl Chips
Cut Wire
Florist Foil

NURSERY

Peonies in field
Hardy German Iris in field

Planted in Sept.	Benching	Blooming	Culture
Antirrhinum	Nov. 1	May–June	Pinch back to 3 or 4 sets of leaves.
Calendulas	Oct.	Feb.–March	42°–45° Pinch.
Calendulas	Oct.	Dec.–Feb.	48°–50° Pinch.
Centaurea Cyanus	Nov. 15	Mar. 15–later	Lighted.
Chrysanthemums (A)	Nov. 1	March 1 later	Lighted.
Chrysanthemums (A)	Nov. 15	April 15 on	Lighted.
Cineraria	Sept.	April–May	Do not pineb.
Cynoglossum		March–April	Shallow bench 45°.
Didiscus	Nov. 15	April–May	Lighted.
Godetia	Oct. 15	Jan.	Shallow bench, one pinch.
Larkspur	Dec.	April–May	50°.
Lupinus	Sept. 10	Jan.–Feb.	
Marigolds	Sept. 20	Oct.–Nov.	Restricted container, dry side. Do not pinch.
Matriearia	Nov. 15	April–May	Lighted.
Mignonette	Nov.	Jan. 15–April	Do not pinch. Disbud. Sow several seeds 2" pot.
Nemesia	Oct.	Feb.	Medium heavy poor soil. 50°.
Pansies	Nov. 1	Dec.–Mareb	Lighted.
Schizantbus	Nov.	Jan.–Feb.	One pinch.
Stocks	Oct. 22	Feb. 1	
Stocks	Oct. 15	Jan. 20 on	Lighted.
Sweet Peas	Sept.	Dec.–Mareb	See August Culture.
Lantana cuttings	Sept.	May	Pinch Jan. or Feb.
Marguerites (Chry. Frutescens)	Nov.–Dec.	Feb.–June	One pinch.
Freesia bulbs	Sept.	Jan.–Feb.	
Anemones Bulbs	Sept.	Jan.–March	
Ixias	Sept.	Feb. & later	
Lilium Giganteum C.S.	Sept. 1	Dec. 1–15	Start 50° until 4 in. Grow 70°–85°.
Lilium Giganteum C.S.	Sept. 15	Dec. 15–30	Start 50° until 4 in. Grow 70°–85°.
Lilium Creole (New Crop)	Sept. 21	Nov.25–Dec.15	Given plenty of space ean grow eool 50°–60°

ITEMS TO START IN OCTOBER

FLOWER SEEDS

Antirrhinum (for cutting)
Begonia (pots and combination)
Calendula (for cutting)
Candytuft (for cutting)
Centaurea Cyanus (Cornflower)
Chrysanthemum (A) (for cutting)
Cineraria (combination)
Clarkia (for cutting)
Didiscus Coeruleus Imp. (for cutting)
Gypsophila (A)
Larkspur (A) (for cutting)
Lilium Formosanum Gt. Pure White
Lupinus (A) (for cutting)
Matricaria (Feverfew)
Nemesia (cutting and combinations)
Petunia (All Double for Easter)
Salpiglossis (cutting)
Schizanthus (combination and pots)
Shamrock
Statice Suworowii
Stocks (for cutting)
Sweet Peas (Cuthbertson and Early Spencer)
Torenia (plants)
Vinca Rosea (plants)
Wallflower Dbl. Early Wonder (B)

BULBS

Anemone
Calla Lilies (white)
Crocus
Freesias
Hardy Liliee
Hyacinthe
Iris
Leucocoryne

BULBS—Continued

Lilium Croft
Lilium Ace } See page 2 for culture
Lilium Estate
Lilium Erabu
Lilium Giganteum
Muscari (Grown in Flats for cut)
Narcissus
Ornithogalum Arabicum
Paper Whites
Ranunculus
Scillas
Snowdrops
Spireas
Tulips
Valley Pips

GREENHOUSE

Ageratum R.C.
Azaleas
Boston Yellow Daisy R.C.
Hydrangeas
Geraniums 2¼" or R.C.
Primula 2¼"

NURSERY

Peonies in field

SUPPLIES

Bird Houses and Feeders
Bombs-Parathion, Tepp and Hetp
Groganic
Jardiniere
Loma
Crepe Paper
Cut Wire
Florist Foil
Vigoro
Ribbons

Planted in October	Benching	Blooming	Culture
Calendulas	Dec. 1	March & later	42°–45° Pinch.
Chrysanthemums (A)	Dec. 1	April–June	Pinch Dec. 20.
Larkspur	Jan.	Late May	50°.
Lilium Formosanum (Giant Pure White)		July–Sept.	Pot seedlings in 2¼ in. pots when large enough to handle and plant out in May.
Statice Suworowii		Feb.–May	Shallow light soil 45°.
Stocks	Dec. 1	April on	40°–45°.
Sweet Peas	Oct.	Feb.–May	See August culture.
Wedgewood Iris	Late Oct.	Jan.–Feb.	Use precooled bulbs for late Dec. bloom'g.
Imperator Iris	Late Oct.	Feb.–March	
Leucocoryne	Oct.	Dec.–Feb.	48°–50°.
Lilium Giganteum (New)	Oct. 1	Jan. 1–15	Start 50° until 4 in. Grow 65°–80°.
Lilium Giganteum (New)	Oct. 15	Jan. 15–30	Start 50° until 4 in. Grow 65°–80°.
Lilium Creole (New Crop)	Oct. 1	Dec. 15	Give plenty of space can grow cool 50°–70°.
Hardy Lilies	See January culture.		

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ITEMS TO START IN NOVEMBER

Acroclinium (for cutting)
Ageratum (for spring plants)
Antirrhinum (for cutting)
Begonias pots and combinations
Calendula (cutting)
Candytuft (for cutting)
Centaurea Cyanus (for cutting)
Cineraria (combination)
Clarkia (for cutting)
Cuphea (for spring plants)
Didiscus Coeruleus Imp. (for cutting)
Gypsophila Elegans Grandiflora
Larkspur (A) (cutting)
Lilium Formosanum
Lupinus (A) (for cutting)
Matricaria (for cutting)
Petunia All Double (Sow now for Mother's Day, 4–5″ pots)
Salpiglossis (cutting)
Schizanthus (for combinations)
Shamrock
Statice Russian (for cuttings)
Stocks
Sweet Peas (Cuthbertson and Early Spencers)
Vinca Rosea (plants)

GREENHOUSE

Azaleas
Calceolaria 2¼″
Fuchsia 2¼″
Geraniums 2¼″ or R. C.
Hydrangeas
Lantana 2¼″

BULBS

Crocus
Hardy Lilies
Hyacinths
Lilium Croft Best Easter Pot Lily, handle like Giganteum; larger purer white flowers with more substance
Lilium Erabu
Lilium Giganteum
Muscari (for cut or pots)
Narcissus
Ornithogalum Arabicum
Paper Whites
Scillas
Snowdrops
Tulips
Valley Pips

SUPPLIES

Bamboo Stakes
Bombs-Parathion, Tepp & Hetp
Bouquet Green
Chip Mats
Crepe Paper
Chelated Iron
Florist Foil
Hygro
Jardiniere
Napthalene
Ribbons
Sulphate of Iron
Tinsel Ribbon

Planted in November	Benching	Blooming	Culture
Antirrhinum	Jan. 15	March-June	Pinch Jan. 1 to 3 or 4 sets of leaves.
Calendulas	Jan.	April-May	42°–45° Pinch.
Gypsophila	Dec. 1	March	Lighted.
Larkspur	Jan.	April-May	
Lilum Formosanum			See October culture.
Stocks	Jan.	April-May	Grow below 50°.
Sweet Peas	Nov.	March-May	See August culture.
Lilium Croft			See page 2.
Lilium Giganteum N.C.		Easter	Start 50° until 4 in. Grow 65°–75°.
Lilium Creole	Nov.	Jan.-Feb.	Give plenty of space can grow cool 50°–70°
Polyanthus Roses		Easter	Pot 15 weeks before Easter for grow'g at 60°
Polyanthus Roses		Mother's Day	Pot 13 weeks before Mother's Day for growing at 60°. (Buds should show 6 weeks before and color 2 weeks before date wanted).
Lilium Erabu New Crop	Nov. 1	Feb. 1-15	
Lilium Erabu New Crop	Nov. 15	Feb. 15-28	

ITEMS TO START IN DECEMBER

FLOWER SEEDS

Ageratum (for spring plants)
Aloe Variegata (for pots)
Asparagus Sprengeri
Asparagus Plumosus Nanus
Asters (for Greenhouse forcing)
Begonias Fibrous (for spring plants)
Begonia Tuberous (for pot plants)
Calendula (for cutting)
Candytuft (for cutting)
Centaurea Cyanus (for cutting)
Chrysanthemum (A) (for cutting)
Clarkia (for cutting)
Coleus (pot plant)
Dahlia Unwins (for pots)
Dracaena (for pots)
Gloxinia (pot plants)
Godetia (for cutting)
Gypsophila (for cutting)
Heliotrope (for pots)
Impatiens (for pots)
Larkspur (A) (for cutting)
Lobelia (spring plants)
Marigolds (for cutting)
Matricaria (Feverfew)
Nemesia (for cutting and combinations)
Pansies
Petunia All Double
Phlox (Dwarf sorts for combinations)
Salpiglossis (for cutting)
Scabiosa (for cutting)
Stocks (for cutting)
Sweet Peas (Cuthbertson & Early Spencers)

FLOWER SEEDS—Continued

Torenia (plants)
Venidium (for cutting)
Vinca Rosea (plants)

GREENHOUSE

Azaleas
Ageratum R.C.
Buddlia 2¼″
Geraniums 2¼″ or R. C.
Polyanthus Roses

SUPPLIES

Holly
Prepared Wreaths
Ruscus
Statice
Thermometers

BULBS

Amaryllis
Chinese Paper Whites
Gladiolus
Gloxinias
Hardy Lilies
Lilium Croft
Lilium Erabu
Lilium Estate
Lilium Giganteum
Paper Whites
Soleil D'Or
Valley Pips

Planted in December	Benching	Blooming	Culture
Asters Queen Market	Feb. 1	April-May	Lighted Dec. 10 to flowering.
Asters Royal, Crego and Ameriean Branching	Feb. 1	May-June	Lighted Dec. 10 to flowering.
Calendula	Feb. 1	April-May	Pinched Feb. 15th.
Candytuft	Flatted late Jan.	May-June	Use poor soil, keep on dry side.
Centaurea Cyanus	Feb.	April & later	
Chrysanthemum(A)	Feb. 1	May-July	Pinched Feb. 15th.
Clarkia	Flatted late Jan.	May	Use poor soil, keep on dry side.
Feverfew (Matricaria)	Feb.	May-June	
Gloxinia (Seed)	Dec.-Jan.	August	60°–65°. Grow in shade.
Godetia	Flatted late Jan.	June	Use poor soil, keep on dry side.
Nemesia	Flatted late Jan.	May	Use poor soil, keep on dry side.
Phlox	Dec.	February on.	
Salpiglossis	Feb.	May-June	One pinch.
Scabiosa	Feb.	June	
Stocks	Feb. 1-15	Mother's Day	
Sweet Peas	Dec.	March-May	See August culture.
Venidium	Feb. 25	March-May	
Gladiolus	Dec. 15	May	Plant var. with primulinus blood as they do not come blind with early planting.
Lilium Creole	Dec.	March-April	Give plenty space can grow cool 50°–75°.
Lilium Giganteum N.C.	Dec. 1–15	For late Easter	Start 50° until 4 in. Grow 65°–75°.
Lilium Erabu	Dec. 1	March 1–15.	
Lilium Erabu	Dec. 15		
Lilium Regale	Dec. 1	Feb.	50° for ten days then 60°.
Lilium Rubrum	Dec.	April-May	
Lilium Album	Dec.	April-May	
Lilium Tigrinum	Dec.	April-May	
Lilium Auratum	Dec.	March-April	
Polyanthus Roses		Easter	See November Culture.
Polyanthus Roses		Mother's Day	See November Culture.

ITEMS TO START IN JANUARY

FLOWER SEEDS

Ageratum (for spring plants)
Aloe Variegata (for pot culture)
Antirrhinum (for cutting)
Asparagus Sprengeri
Plumosus Nanus
Balsam (Bush var.) (for combination)
Begonias Fibrous (spring plants)
Begonia Tuberous (for pot plants)
Browallia (for pot culture)
Calendulas (for cutting)
Candytuft (for cutting)
Carnation (Annual, for plants)
Centaurea Candidissima (Dusty Miller)
Gymnocarpa (Dusty Miller)
Cyanus (for cutting)
Chrysanthemum (Annual)
Cineraria Maritima (Dusty Miller)
Clarkia (for cutting)
Cobaea Scandens
Coleus
Crossandra Fine pot plant
Cuphea (for plants)
Dahlias Unwin (fine pot plants)
Dracaena Indivisa (for pot plants)
Exacum (pot plants)
Gloxinia (pot plants)
Gypsophila (Annual)
Impatiens (Fine for shade)
Jacaranda (fine foliage pot plant)
Kalanchoe (for pot plants)
Larkspur (Annual, for cutting)
Leptosyne (for cutting)
Linaria (for combination)
Lobelias Plants and combinations
Lupins (Annual)
Marigolds Dwarf (for combination)
Matricaria Golden Ball Pots and bedding
Mimulus (for pot culture)
Nemesia (for combination)
Nierembergia Purple Robe Impr. (for pot culture)
Pansies Super Maple Leaf Giants Mixed Largest Super Swiss Giants (Finest color range, size, earliness)
Petunias All Double
Phlox Dwarf Varieties for Combinations)
Salpiglossis (for cutting)
Salvia (spring plants)
Schizanthus (Vaughan's Masterpiece for combinations)
Smilax
Solanum (Xmas Cherry or Pepper)
Stocks Column and Branching

FLOWER SEEDS—Continued

Strawberries (Baron Solemacher)
Sweet Peas (Early Spencer and Cuthbertson)
Torenia (for pot culture)
Verbena Dwarf (for combinations)
Vinca Rosea (plants)

GREENHOUSE

Azaleas
Ageratum R. C.
Carnation R. C.
Geraniums 2¼″ or R. C.
Hydrangea R. C.
Cyclamen Seedlings
Fancy Leaved Caladiums
Lantana 2¼″
Polyanthus Roses

BULBS

Amaryllis
Begonias (Tuberous Rooted)
Gladiolus
Gloxinias (Tuberous Rooted)
Hardy Lilies
Lilium Croft
Lilium Erabu
Lilium Giganteum
Tuberoses
Valley Pips

SUPPLIES

Aluminum Sulphate
Bamboo Stakes
Bombs-Parathion, Tepp & Hetp
Bone and Blood
Bird Houses and Feeders
Formaldehyde Dust
Handy Seeder
Hormodin
Horn Shavings
Hose Couplings
Loma
Nico-Fume
Paper Pots
Peat Moss
Pot Labels
Rootone
Transplantone
Vapatone

VEGETABLE SEED

Cabbage
Cauliflower
Celery
Egg Plant
Parsley
Pepper
Radish
Tomatoes

Planted in January	Benching	Blooming	Culture
Antirrhinum	March	April-June	Pinch February 15th.
Begonias (Seed)	Jan.	Aug.-Dec.	
Browallia	March	May-June	
Candytuft & Nemesia	Jan.	May-June	Sow directly in flats, bench.
Centaurea Cyanus	Feb.	April	One pinch.
Chrysanthemum(A)	March 1	May	
Clarkia	Jan.	April-May	Grow 2″ or shallow flats. Poor soil.
Gloxinia	Jan.	Aug.-Sept.	Grow under partial shade.
Gypsophila	Jan. & every two weeks	Mareh 15	Sow directly in flat or bench.
Kalanchoe 60°–65°	March	Dec. 1–15	Shade 3 hrs. Aug. 15-Oct. 1. 5-8 P.M.
Kalanchoe 60°–65°	March	Christmas	Shade 3 hrs. Sept. 1-Oct. 20. 5-8 P.M.
Leptosyne	March 1	April-May	
Lupinus	Jan.	April	
Petunias	Jan.	April-June	
Salvia	Feb.	July-Aug.	Keep bushy.
Solanum	March	Berried Dec.	Pinch March.
Stocks	March	Memorial Day.	Grow below 50°.
Sweet Peas	Jan.	April-June	See August culture.
Torenia	Feb.	June-July	Pinch March.
Hydrangea (cuttings)	Feb.-April	Easter-June	Do not pinch later than July 1.
Gladiolus	Jan. 15	May	
Lilium Giganteum	Jan. 1	April 15–30	Start 50° until 4 in. Grow 65°–75°.
Lilium Giganteum	Jan. 15	April 25 to May 5	Start 50° until 4 in. Grow 65°–75°.
Lilium Erabu	55°–60°	Better cool grower than Giganteum.	
Lilium Rubrum	Flowers about 5½ months from date of planting.		
Lilium Album	Flowers about 5½ months from date of planting.		
Lilium Tigrinum	Flowers about 5½ months from date of planting.		
Lilium Auratum	Flowers about 5 months from date of planting.		

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Third Zone within 150 to 300 miles	23c	5c
Fourth Zone within 300 to 600 miles	24c	7c
Fifth Zone within 600 to 1000 miles	26c	10c
Sixth Zone within 1000 to 1400 miles	28c	12c
Seventh Zone within 1400 to 1800 miles	30c	15c
Eighth Zone all over 1800 miles	32c	18c

NOTE—A fraction of a cent in the total amount of postage on any Parcel is counted as a full cent.

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Merion Blue Grass Price Reduced 20%

THIS LAWN FROM MERION FORMULA IN A CHICAGO SUBURB IS RARELY WATERED.

Since seed of it was first offered to the public by Vaughan's Seed Company in 1951, amazing progress has been made by Merion blue grass in widespread acceptance by lawn growers, and rapid increase in seed production.

As experience in growing has been gained and acreage increased, savings in production costs enable us to pass on to our customers a 20% reduction in the price of this luxury grass, placing it far ahead of all rivals both in quality and economy.

All grass seed prices subject to change without notice.

Bags included on all grass seed gross for net. All grass seed prices net cash. F.O.B. Chicago and New York and subject to change without notice.

LAWN MIXTURES

SPECIAL MIXTURES

If interested in cheaper mixtures or formulas other than we list let us know and we will be glad to quote.

VAUGHAN'S PARKS FORMULA

	Per 100 lbs.
1-lb. carton, each 95c (Retails for $1.45)	$93.00
2 and 3-lb. cartons	92.00
5 lb. cartons or bags (each $4.65)	91.00

Per 100 lbs.			
10 and 15-lb. bags	$89.50	100 lb. lots	$88.00
50 and 25-lb. bags	89.00	500 lb. lots	87.00

Lots of 10 to 25 lbs., 91c lb. On larger Lots Ask For Prices.

VAUGHAN'S COLUMBIAN (SHADYPLACE FORMULA)

Especially adapted for medium shade and sandy soils.

1-lb. carton, each 90c (Retails for $1.35)	$88.00
2 and 3-lb. cartons	87.00
5-lb. cartons or bags (each $4.40)	86.00

Per 100 lbs.			
10 and 15-lb. bags	$84.50	100 lb. lots	$83.00
50 and 25-lb. bags	84.00	500 lb. lots	82.00

Lots of 10 to 25 lbs., 86c lb. On Larger Lots Ask For Prices.

VAUGHAN'S DENSE SHADE FORMULA

Composed of grasses most suited for growing in heavily shaded situations. Is also satisfactory in moderate shade. This is an exceptionally fine shade mixture and now includes the splendid new creeping red fescue. Grass grown in the shade requires extra care. Ask for Lawn Grass pamphlet for directions.

Prices Same as Columbian

VAUGHAN'S EXCEL LAWN MIXTURE

A Good Mixture for Quick Results

100 lb. bags, $60.00; 1-lb. cartons (ea., 70c), $65.00 per 100 lbs.; 5-lb. bags (ea., $3.25), $63.00 per 100 lbs.; 10 to 25 lbs., 63c per lb.; retails $1.00 per lb.

Ask for quotations on grasses not listed.

DUE TO UNSETTLED CONDITIONS AT THE TIME THIS GOES TO PRESS, PRICES ARE ONLY APPROXIMATE

MERION BLUE GRASS FORMULA— 100% PERENNIAL GRASSES

Contains 40% pure seed Merion Blue Grass (over 1,000,000 seeds per lb.) plus Penn State Fescue, Highland Bent and Red Top. 1 lb. cartons, $1.55 per lb.; 3 lb. cartons, $1.53 per lb.; 5 lb. bags, $1.50 per lb.; 10 lb. bags, $1.48 per lb.; 50 lbs., $1.47 per lb.; 100 lbs., $1.45 per lb. Retails for $2.40 per lb.

Produces thicker turf, stays greener all summer and stands closest mowing. 1 lb. covers 750 sq. ft., 3 times as much as standard blue grass mixtures, thus being no more expensive to sow an equal area.

Merion Blue Grass, propagated from a single plant selection, which has demonstrated in trials throughout the country ability to stay green all summer, stand close mowing, and resist leaf spot and other diseases. Because its growth is more stocky and spreading than standard blue grass, it covers more ground, and less seed is required for a given area. We regard it the most important lawn grass introduction in the last century.

Penn State Fescue, an improved strain of fescue, stronger growing and more resistant to disease. It thickens the turf, does well on sandy soils and in shade.

Highland Bent, dry land or upland bent, more drought and disease resistant than most bents and not requiring the care of creeping bent, it spreads underground and makes a thick turf, helping keep down weeds and spreading quickly to cover bare spots.

Red Top. A nurse grass which help keep the weeds down while the slower growing grasses get started.

MERION BLUE GRASS

For those desiring straight Merion Blue Grass we can offer up to a maximum of 100 lbs. per customer due to the limited quantity. One lb. will sow 750 sq. ft. 1 lb. cartons, $2.60 per lb.; 3 lb. cartons, $2.57 per lb.; 5 lb. bags, $2.55 per lb.; 10 lb. bags, $2.54 per lb.; 25 lb. bags, $2.53 per lb.; 50 lb. bags, $2.52 per lb.; 100 lb. bags, $2.50 per lb. Retails for $3.95 per lb.

Because of the short crop and high price of Kentucky Blue Grass, Merion is actually cheaper to use because of the smaller quantity of seed needed.

FANCY GRASSES

Orders will be booked at the lowest price on day received. Order early and avoid transportation difficulties.

KENTUCKY BLUE GRASS. Our blue grass is all recleaned to fancy purities with low weed content and is of high germination.
Fancy. Purity 85%. Full bags (112 lbs.), $96.00 per 100 lbs.; less than 112 lbs., 98c per lb.; 10 to 25 lbs., $1.00 per lb.

RED TOP, Refined. Extra Recleaned Purity 97 to 98%. Full bags (100 lbs.). Not available due to short crop.
Extra Fancy. Purity 95%. Full bags (100 lbs.). Not available due to short crop.
Fancy. Purity 92%. Full bags (100 lbs.), $79.00 per 100 lbs.; broken bags, 81c per lb.; 10 to 25 lbs., 83c per lb.

CLOVER, White Dutch.
Extra Fancy. $90.00 per 100 lbs.; less than 100 lbs., 92c per lb.; 10 to 25 lbs., 94c per lb.

PERENNIAL RYE GRASS. $22.00 per 100 lbs.; broken bags, 24c per lb.; 10 to 25 lbs., 25c per lb.

RYE GRASS Common, Native Grown. Full bags (100 lbs.), $14.00 per 100 lbs.; broken bags, 15c per lb.; 10 to 25 lbs., 16c per lb.

CHEWING'S FESCUE. Full bags (115 lbs.), $45.00 per 100 lbs.; broken bags, 47c per lb.; 10 to 25 lbs., 49c per lb.

CREEPING RED FESCUE. Domestic grown. 100 lbs., $45.00; less than 100 lbs., 47c per lb.; 10 to 25 lbs., 49c per lb.
Penn State Chewings Fescue. $6.00 per 100 lbs. higher.

ALTA FESCUE. Excellent for roadsides, airports, etc.—quite drought resistant—deep root system—quite coarse for lawn purposes—100 lbs., $25.00; less than 100 lbs., 26c per lb.

POA TRIVIALIS. $65.00 per 100 lbs.; broken bags, 67c per lb.; 10 to 25 lbs., 69c per lb.

ASTORIA BENT, Certified Blue Tag. Full bags, (100 lbs.), $85.00 per 100 lbs.; broken bags, 90c per lb.; 10 to 25 lbs., 95c per lb.

SEASIDE BENT, Certified Blue Tag. Full bags, $90.00 per 100 lbs.; broken bags, 95c per lb.; 10 to 25 lbs., $1.00 per lb.

HIGHLAND BENT. Full bags $70.00 per 100 lbs.; broken bags, 75c per lb.; 10 to 25 lbs., 80c per lb.

View of flower seed trial grounds ot Vaughan's Garden Center, W. 47th Street ond Willow Springs Road, Western Springs, Ill. Hundreds of annual and perennial flowers, accurately lobeled, ore grown here annually. Visitors ore welcome to Inspect these trials during their flowering period, from Aug. 1 to October 1.